





GRAPHIC SCALE



( IN FEET )  
1 inch = 200 ft.

NOTES:

- 1) A REPRESENTATIVE FROM PUBLIC WORKS AND THE CITY'S MUNICIPAL WATER DISTRICT MUST BE PRESENT AT ALL TIMES DURING CONSTRUCTION OPERATIONS AT CROSSINGS BETWEEN THE PROPOSED SEWER MAIN AND EXISTING WATER MAIN. CONTACT PUBLIC WORKS AND MENLO PARK MUNICIPAL WATER AT 650-330-6600 PRIOR TO COMMENCEMENT OF ANY WORK WITHIN THESE UTILITY CROSSING ZONES.
- 2) WORK ON SHEET 32, 33, AND 41 SHALL BE FINISHED BEFORE 4/2017



CITY OF MENLO PARK

|             |          |          |                          |       |
|-------------|----------|----------|--------------------------|-------|
| DATE:       | 6/25/15  | 04/15/16 | ISSUED FOR BOARD REVIEW  |       |
| SCALE:      | AS NOTED | 04/26/16 | ISSUED FOR BOARD REVIEW  |       |
| DESIGNED:   | JJF      |          |                          |       |
| DRAWN:      | PJG      |          |                          |       |
| CHECKED:    | JJF      |          |                          |       |
| PROJ. ENGR: | RJL      |          |                          |       |
|             | BY       | DATE     | DESCRIPTION OF REVISIONS | APP'D |

**FL FREYER & LAURETA, INC.**  
 CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

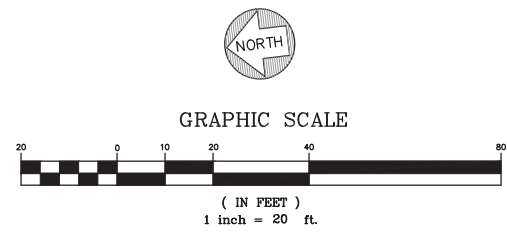
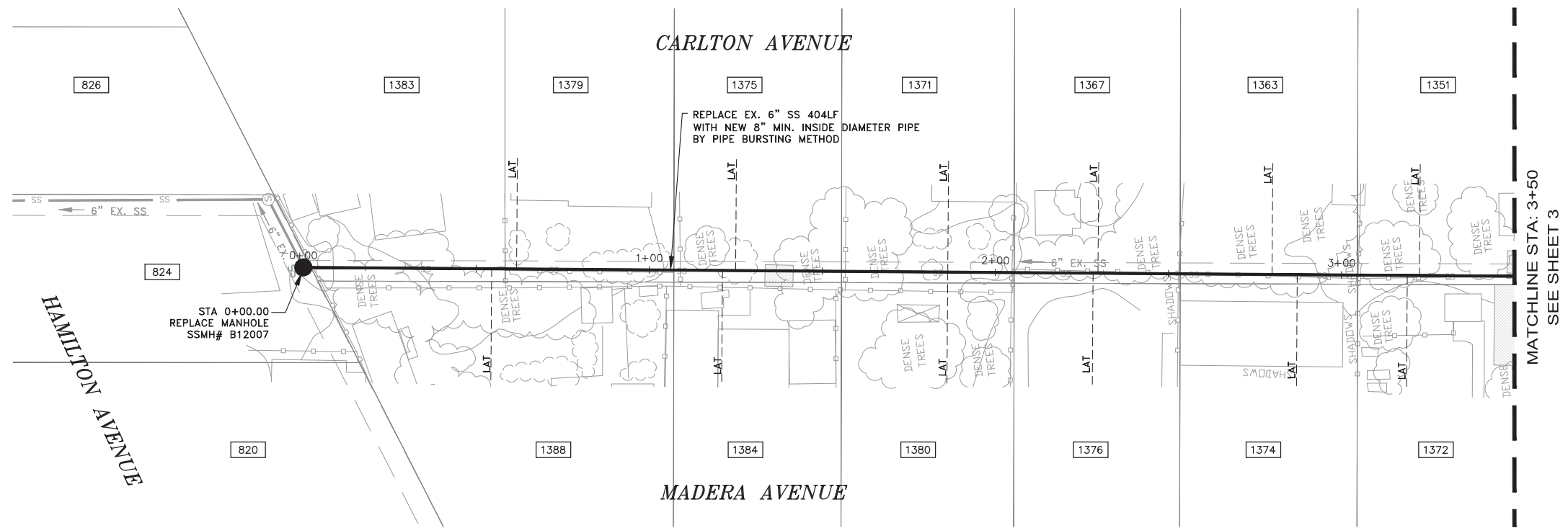
144 North San Mateo Drive • San Mateo, CA 94401  
 (650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com

**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



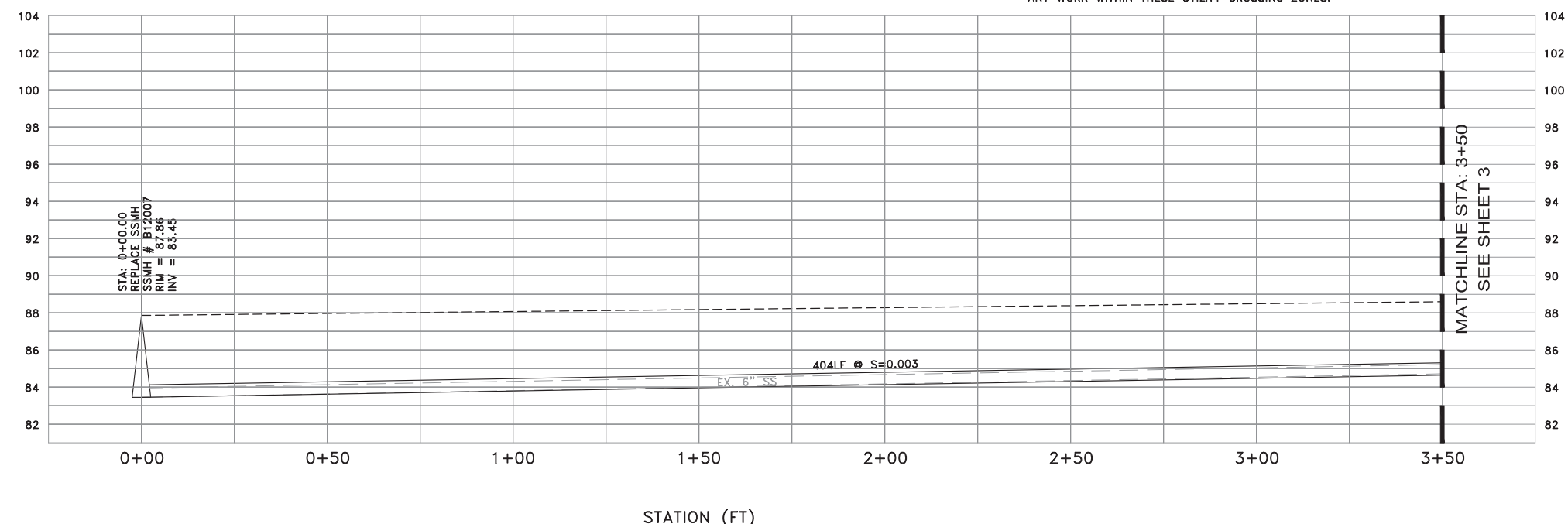
**BELLE HAVEN SEWER PROJECT PHASE II**  
**INDEX MAP**  
**MENLO PARK, CALIFORNIA**

SHEET  
**1**  
 JOB NO.  
**1068**



**NOTES:**

- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 2) CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL NOTE THE CLOSE PROXIMITY OF UTILITIES TO PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY U.S.A. TO LOCATE UTILITIES AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION.
- 3) FOR PIPE BURSTING SEE STANDARD PROJECT STANDARD SPECIFICATION FOR PIPE INSTALLATION AND MATERIAL.
- 4) ALL PROPERTY LINES SHOWN ARE APPROXIMATED FROM ASSESSORS PARCEL MAPS OR FROM RECORD INFORMATION, AND THEIR LOCATION MAY NOT BE EXACT. THE PROPERTY LINES SHALL BE USED AS REFERENCE TO LOCATE SERVICE LATERAL CONNECTION TO EACH PROPERTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE EXACT LOCATION OF EACH PROPERTY LATERAL FOR CONNECTION.
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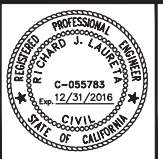
**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

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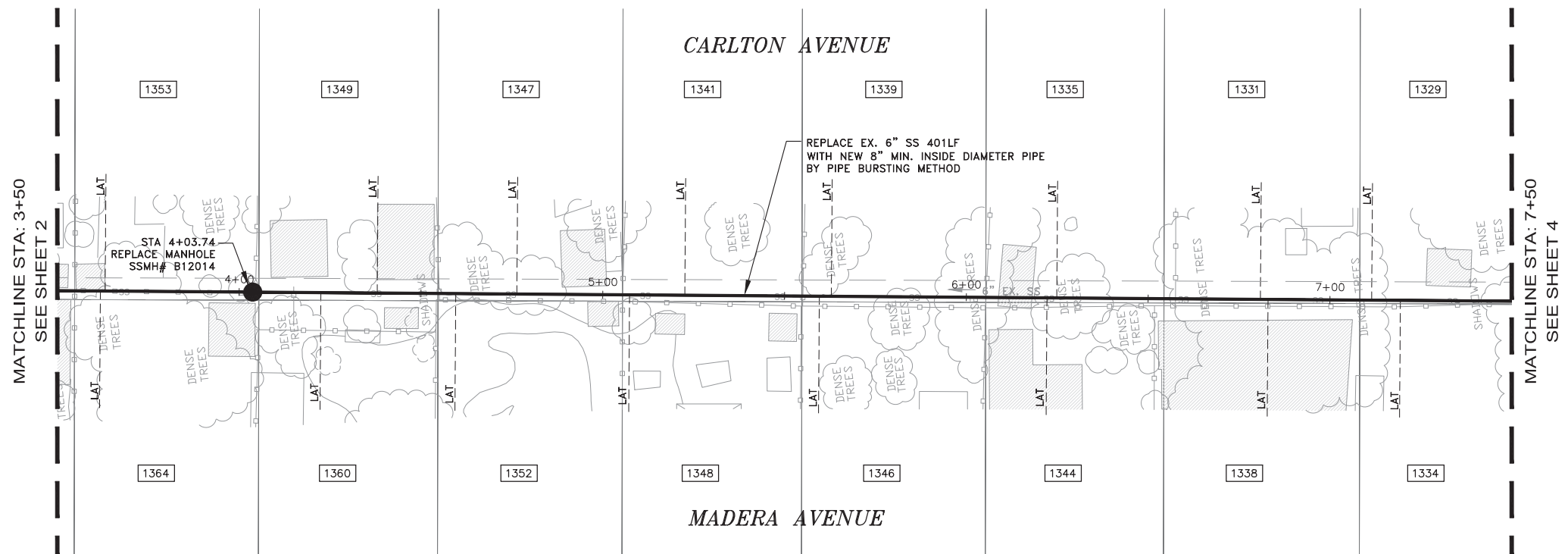
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 SAN MATEO COUNTY  
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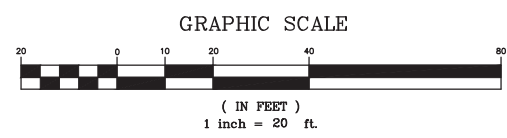
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN CARLTON AVE & MADERA AVE**  
**MENLO PARK, CALIFORNIA**

|         |      |
|---------|------|
| SHEET   | 2    |
| JOB NO. | 1068 |



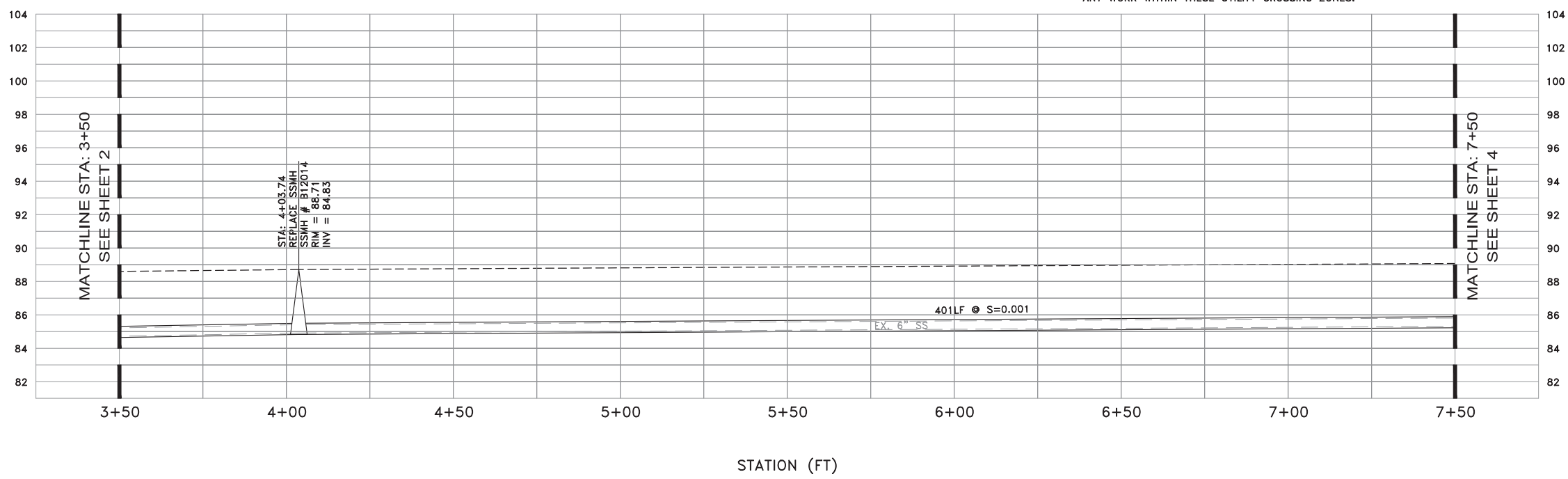
MATCHLINE STA: 3+50  
SEE SHEET 2

MATCHLINE STA: 7+50  
SEE SHEET 4



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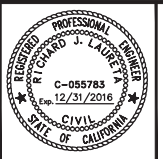
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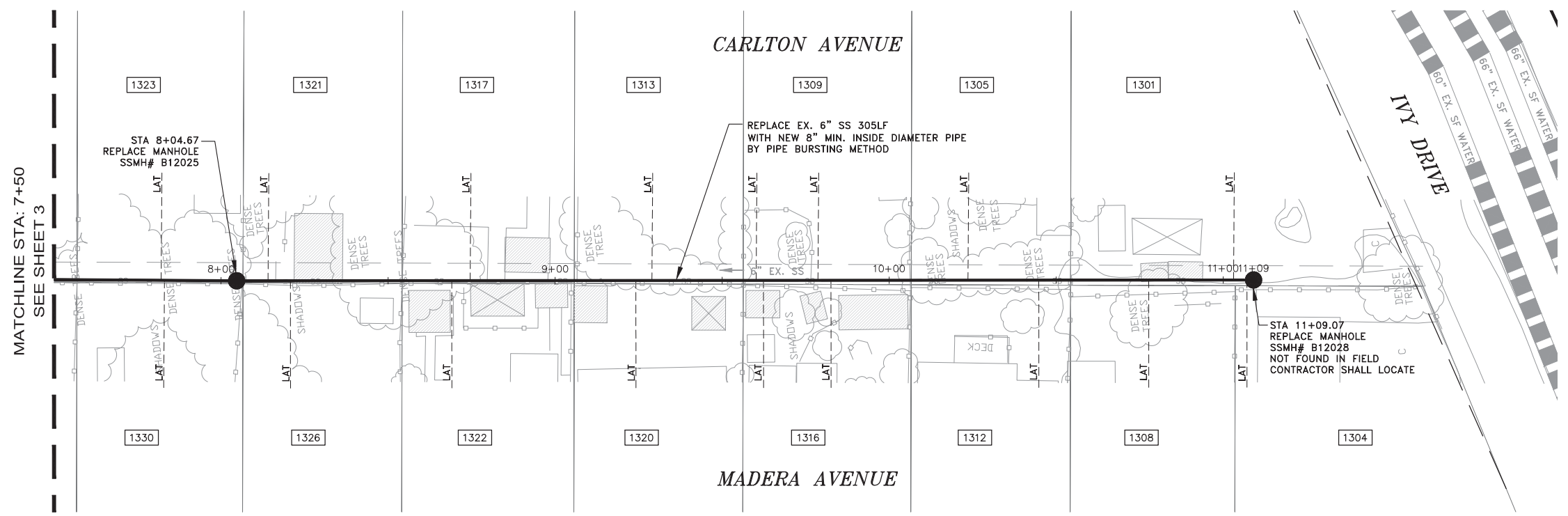
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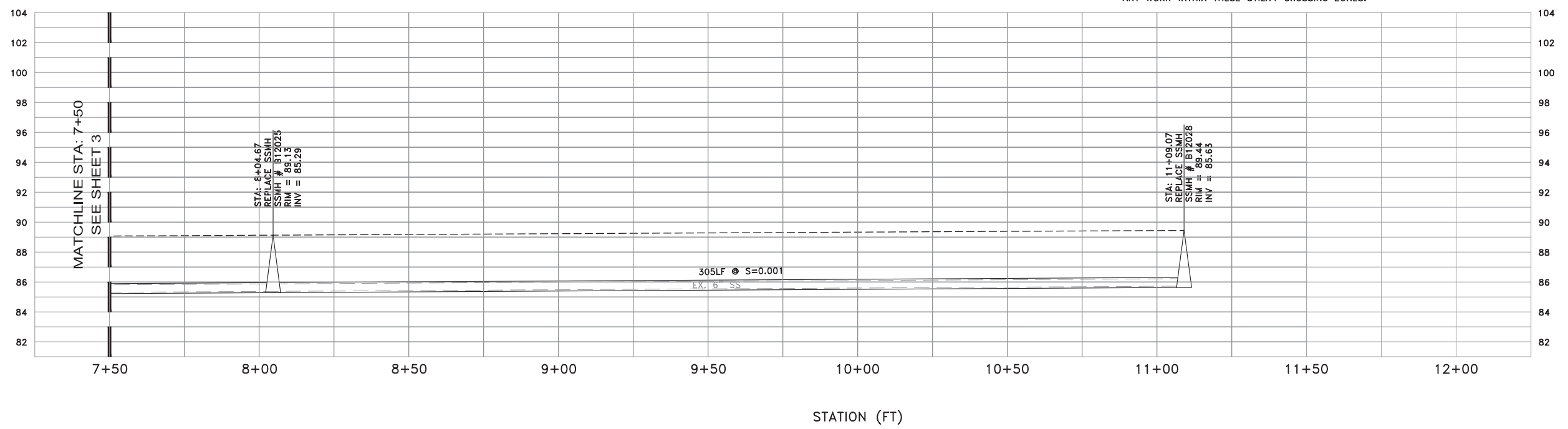
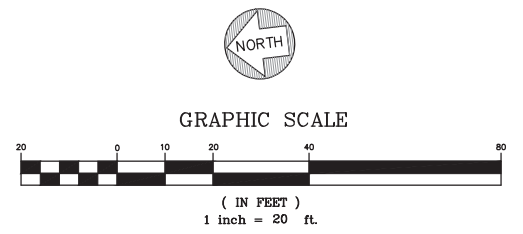
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**EASEMENT BETWEEN CARLTON AVE & MADERA AVE**  
**MENLO PARK, CALIFORNIA**

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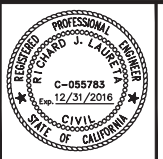
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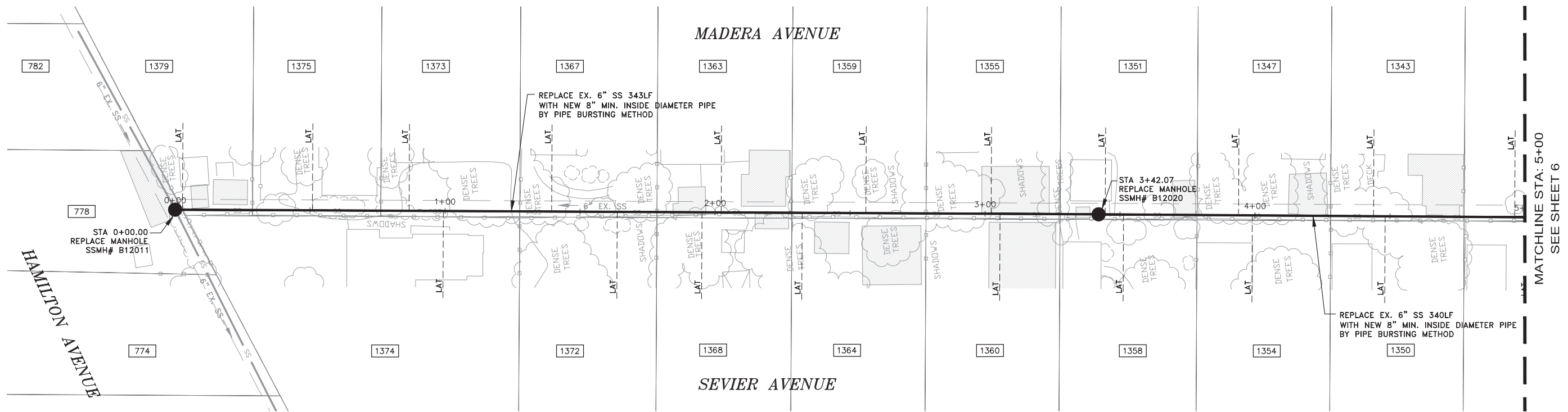
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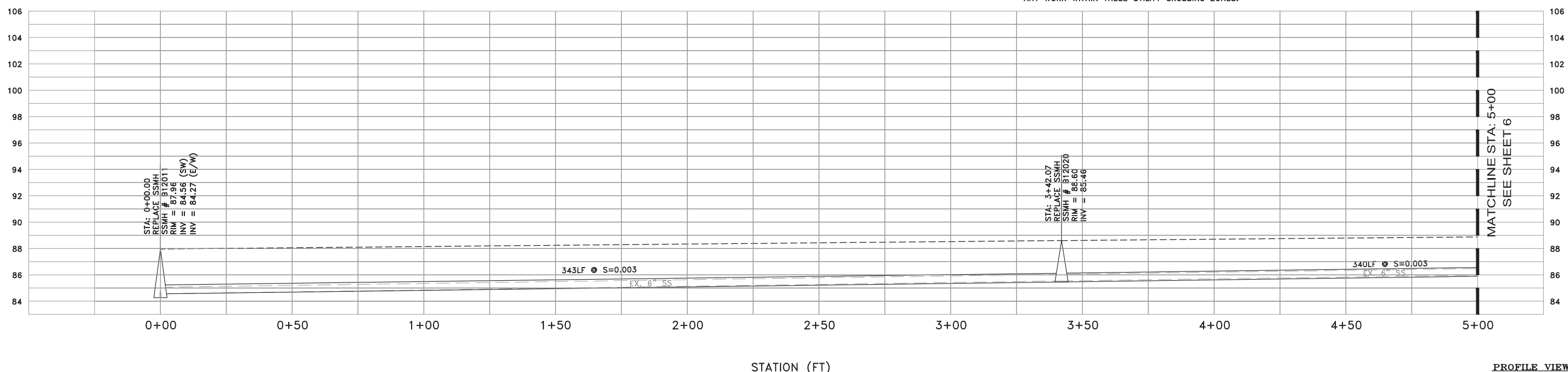
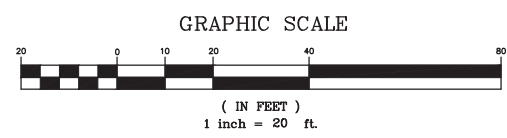
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN CARLTON AVE & MADERA AVE**  
**MENLO PARK, CALIFORNIA**

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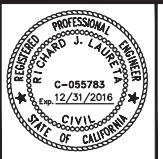
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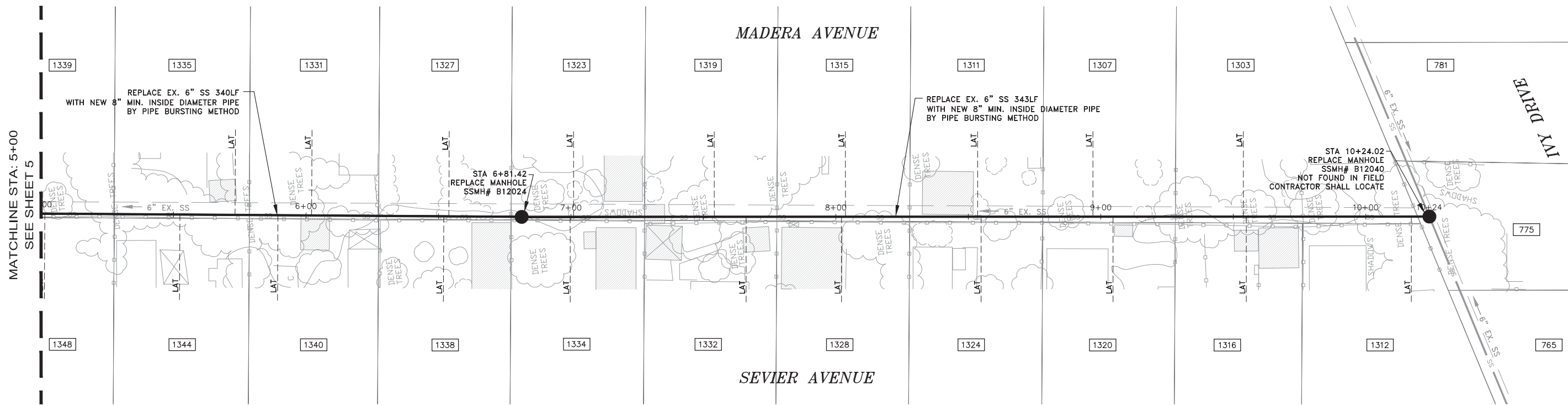
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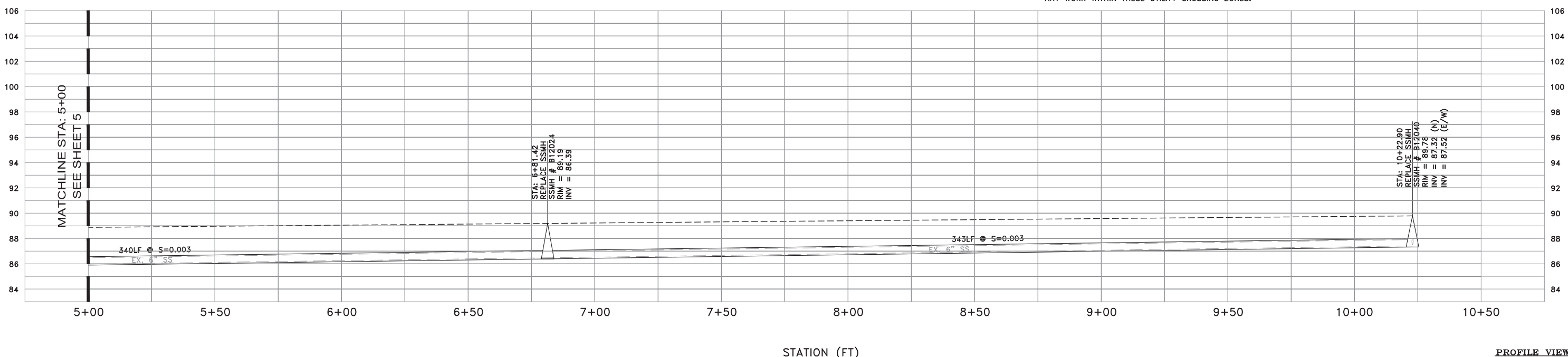
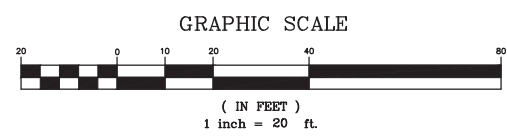
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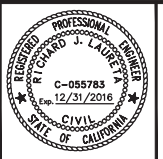
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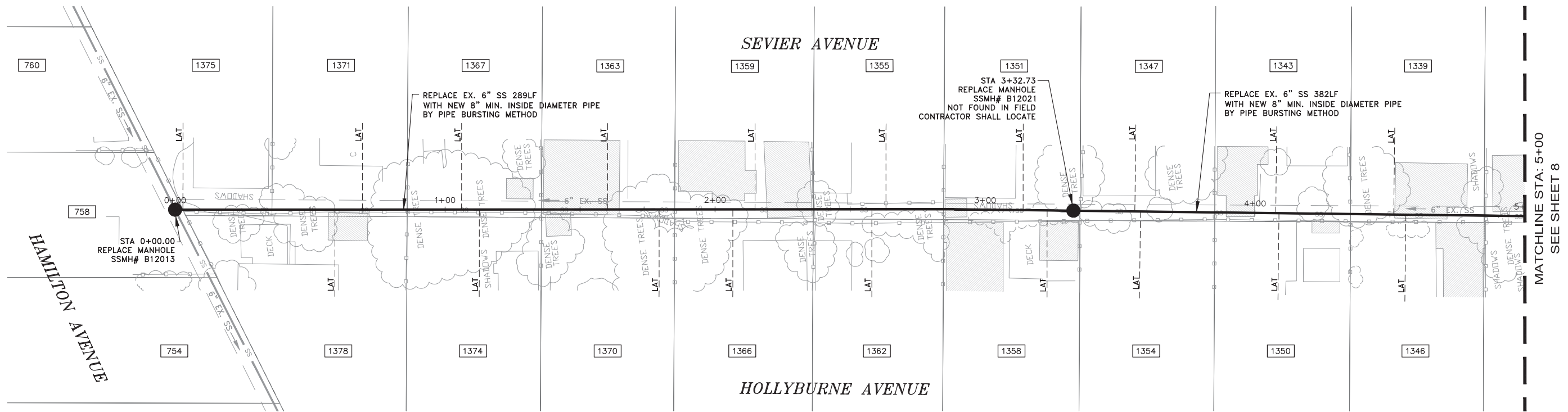
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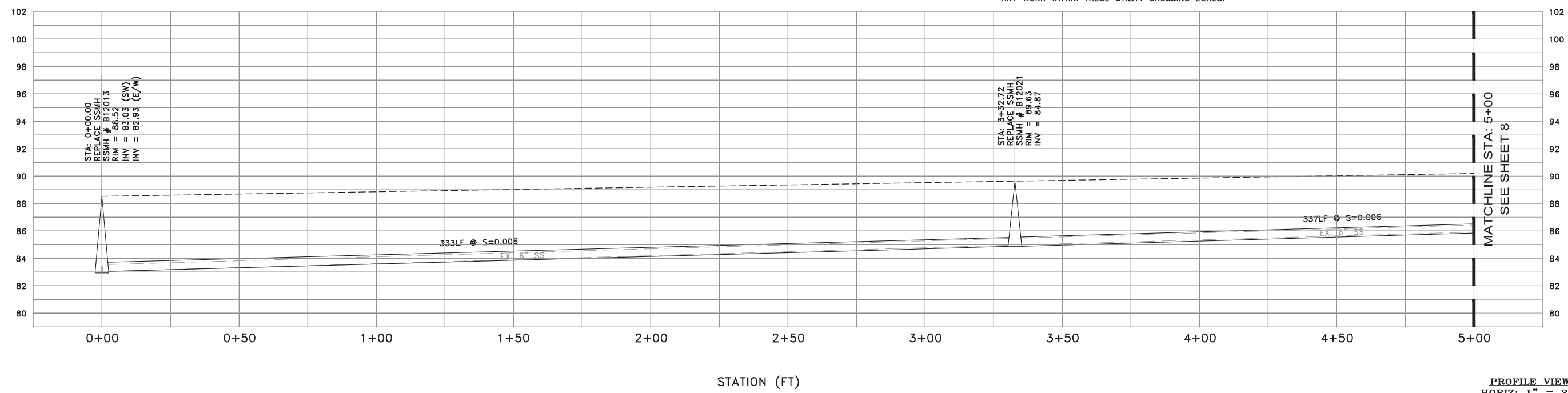
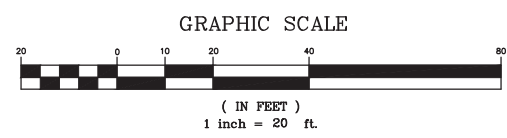
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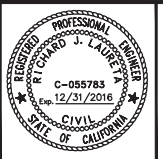
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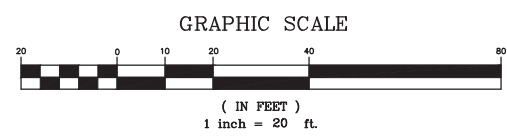
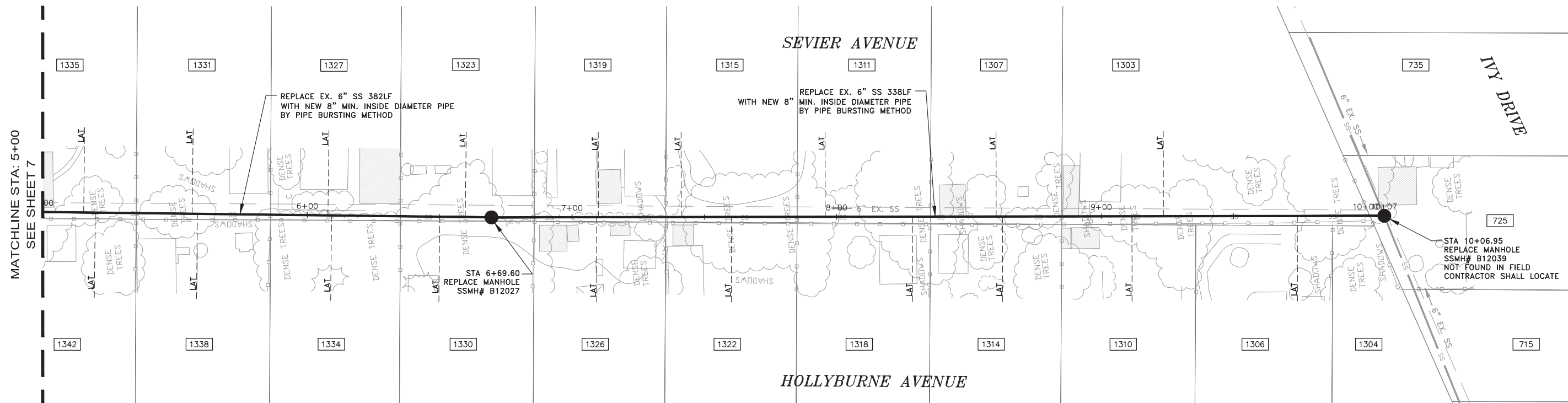
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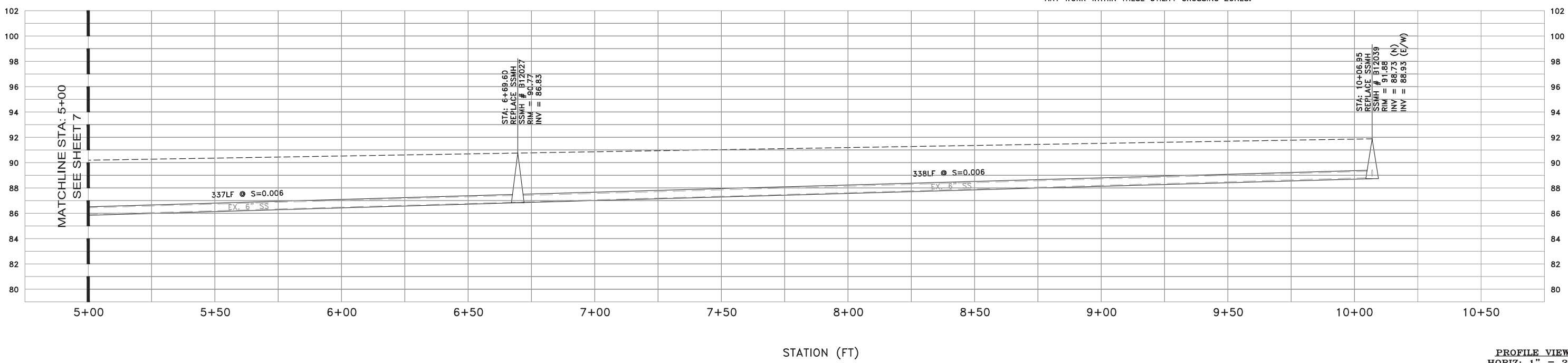
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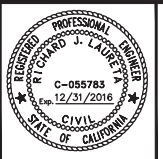
**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

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| DATE:       | 6/25/15  | 04/15/16                 | ISSUED FOR BOARD REVIEW |
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| DRAWN:      | PJG      |                          |                         |
| CHECKED:    | JJF      |                          |                         |
| PROJ. ENGR: | RJL      |                          |                         |
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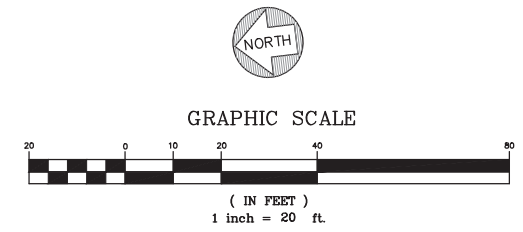
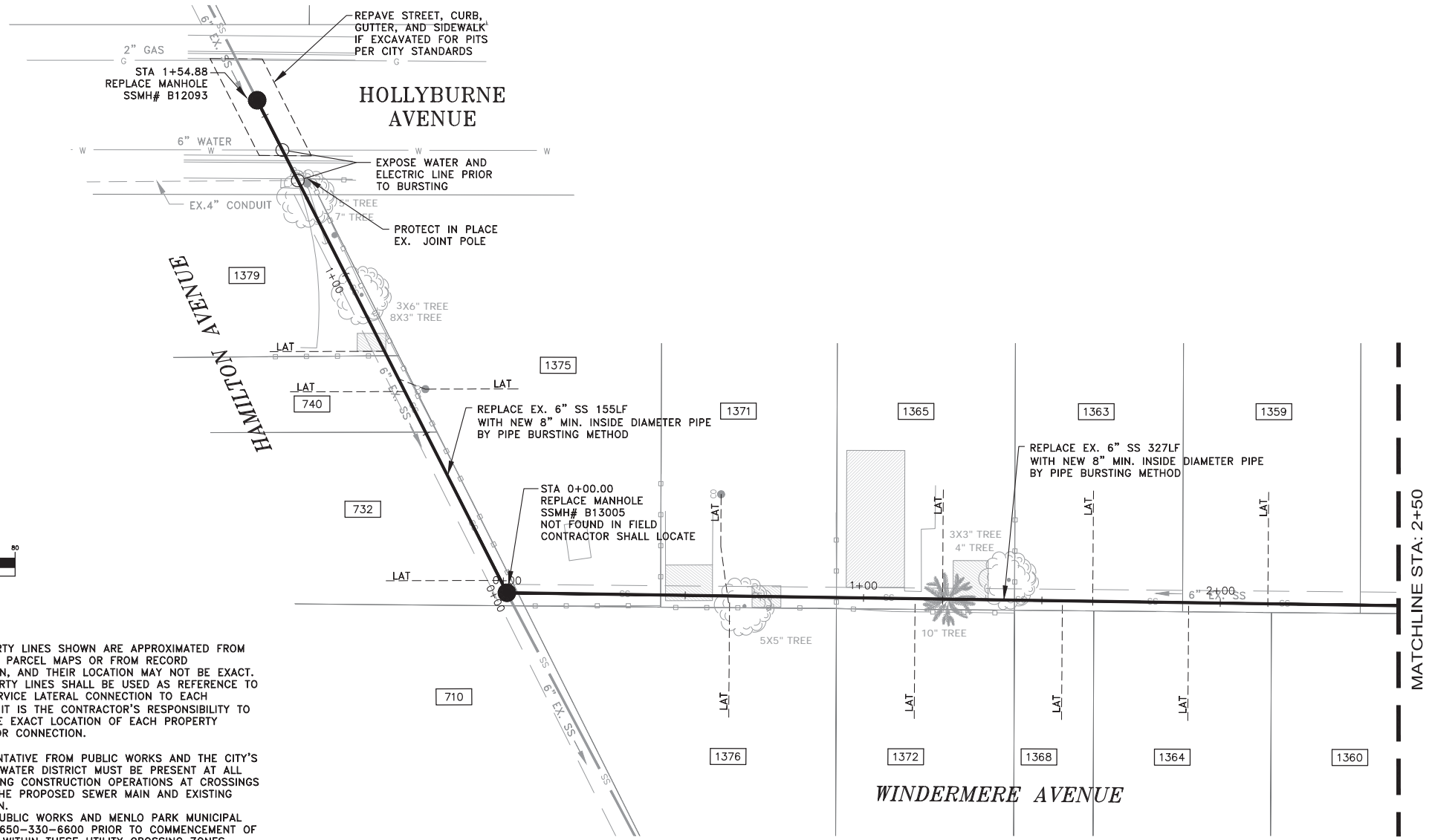
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



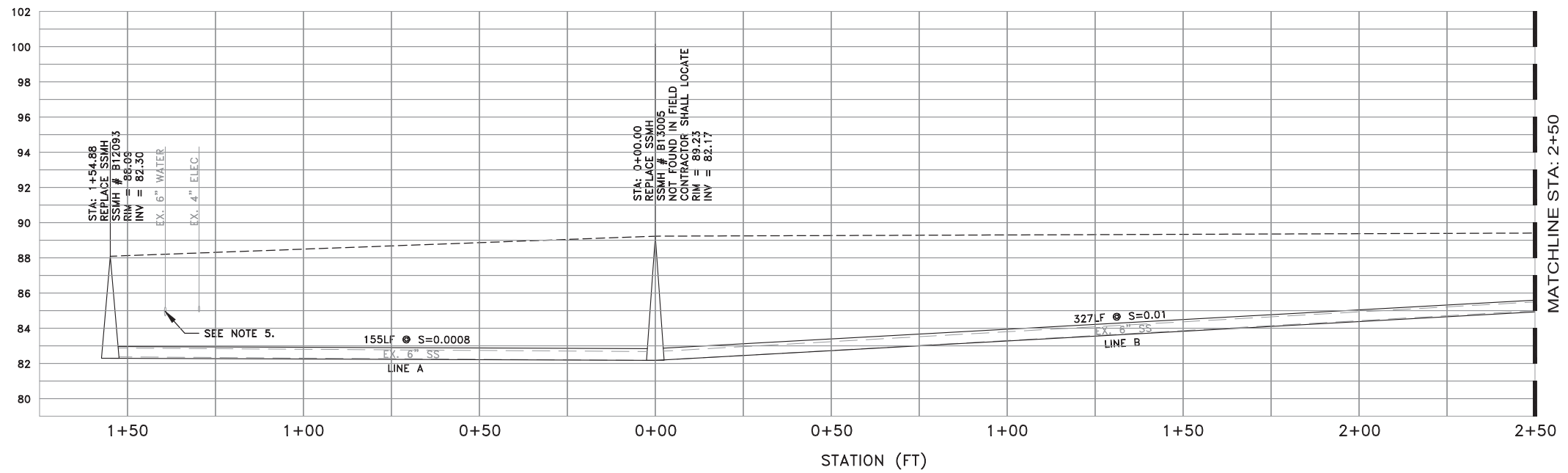
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN SEVIER AVE & HOLLYBURNE AVE**  
**MENLO PARK, CALIFORNIA**

SHEET  
**8**  
 JOB NO.  
**1068**



- NOTES:
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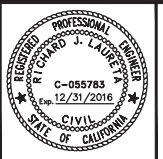
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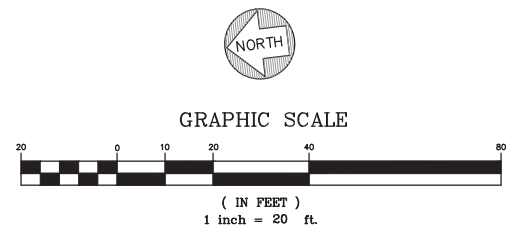
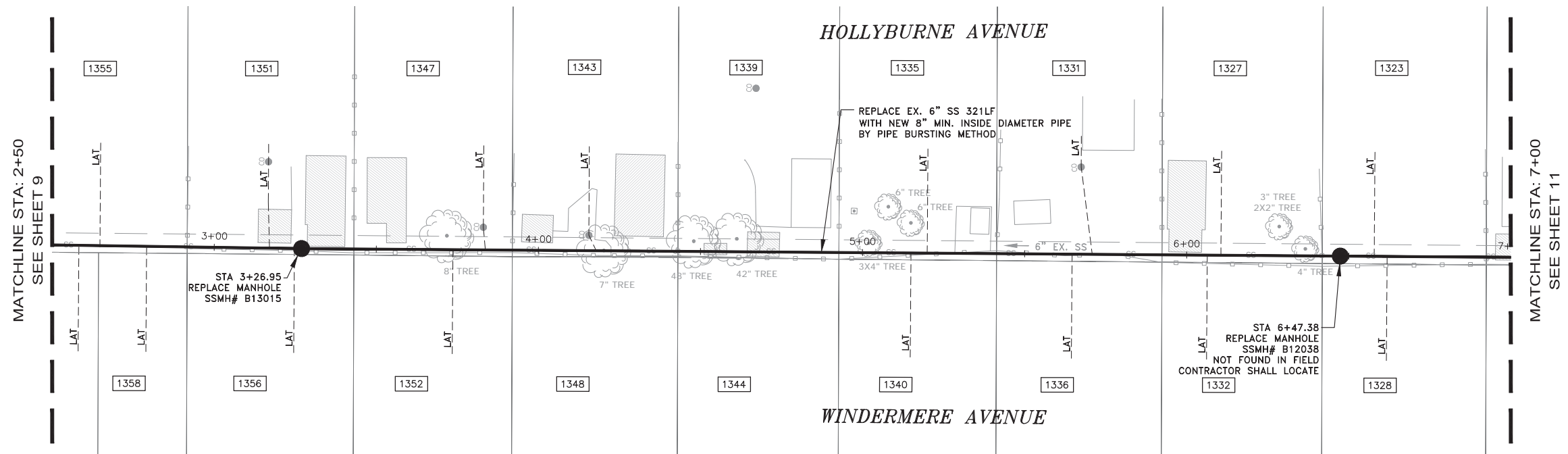
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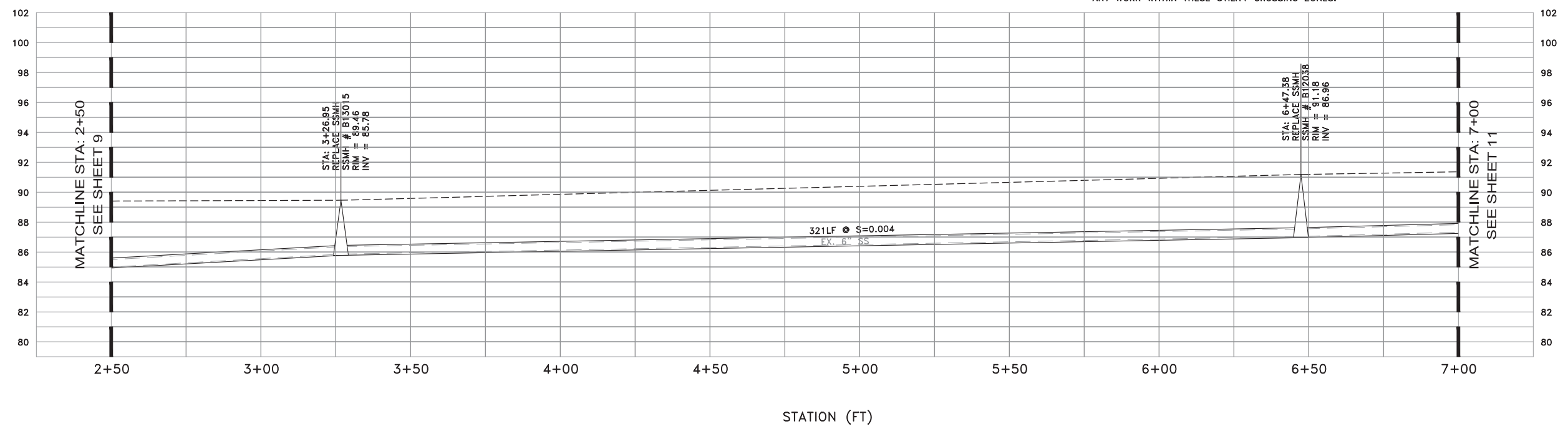
**BELLE HAVEN SEWER PROJECT PHASE II**  
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 MENLO PARK, CALIFORNIA

|         |      |
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| SHEET   | 9    |
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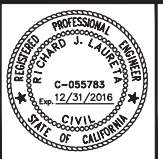
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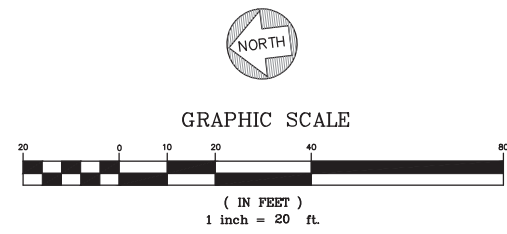
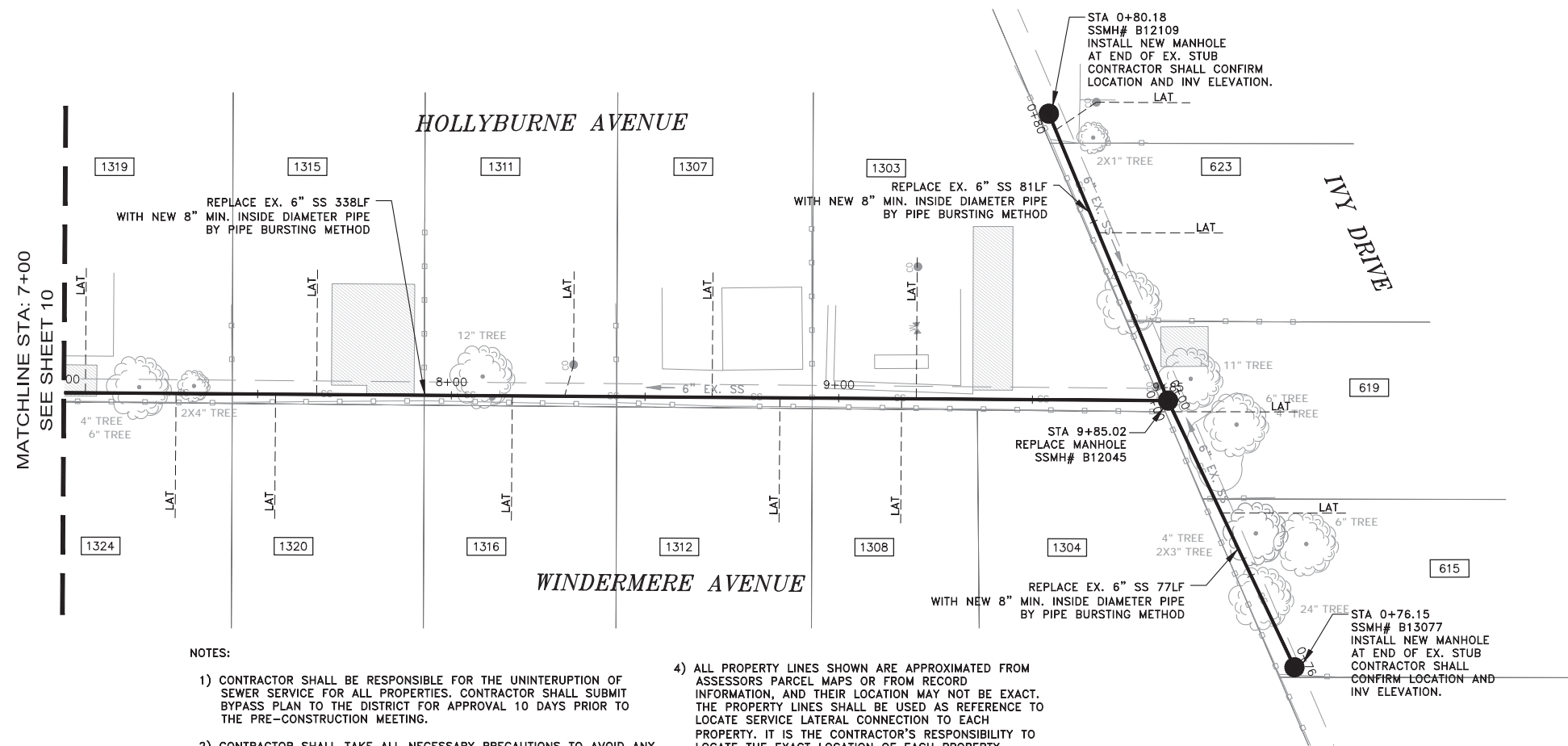
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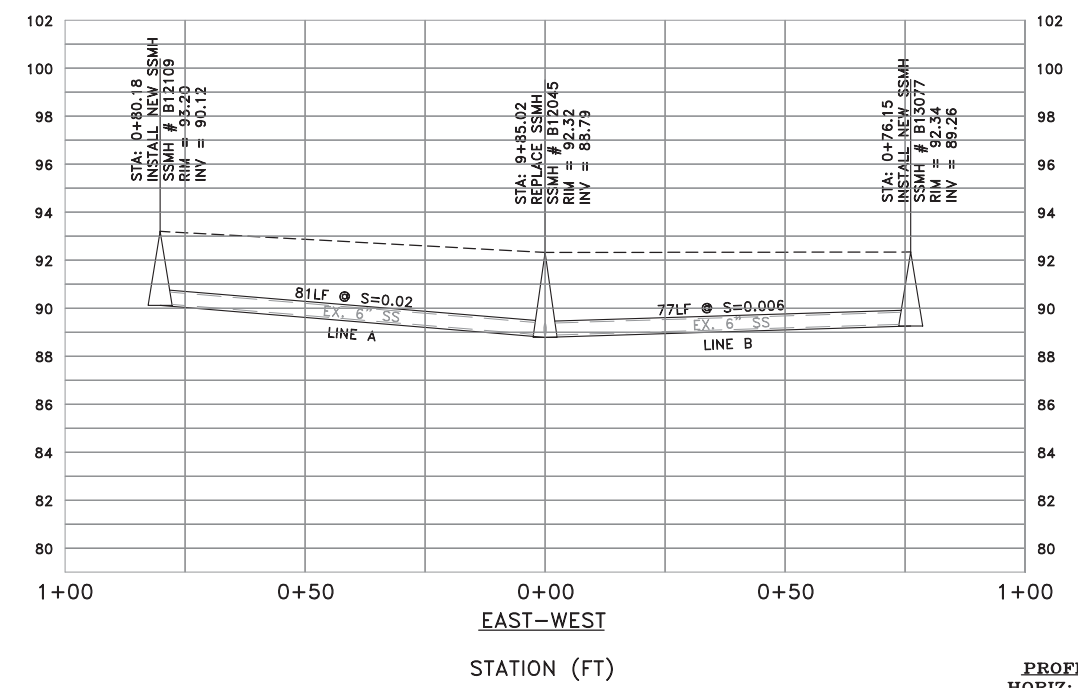
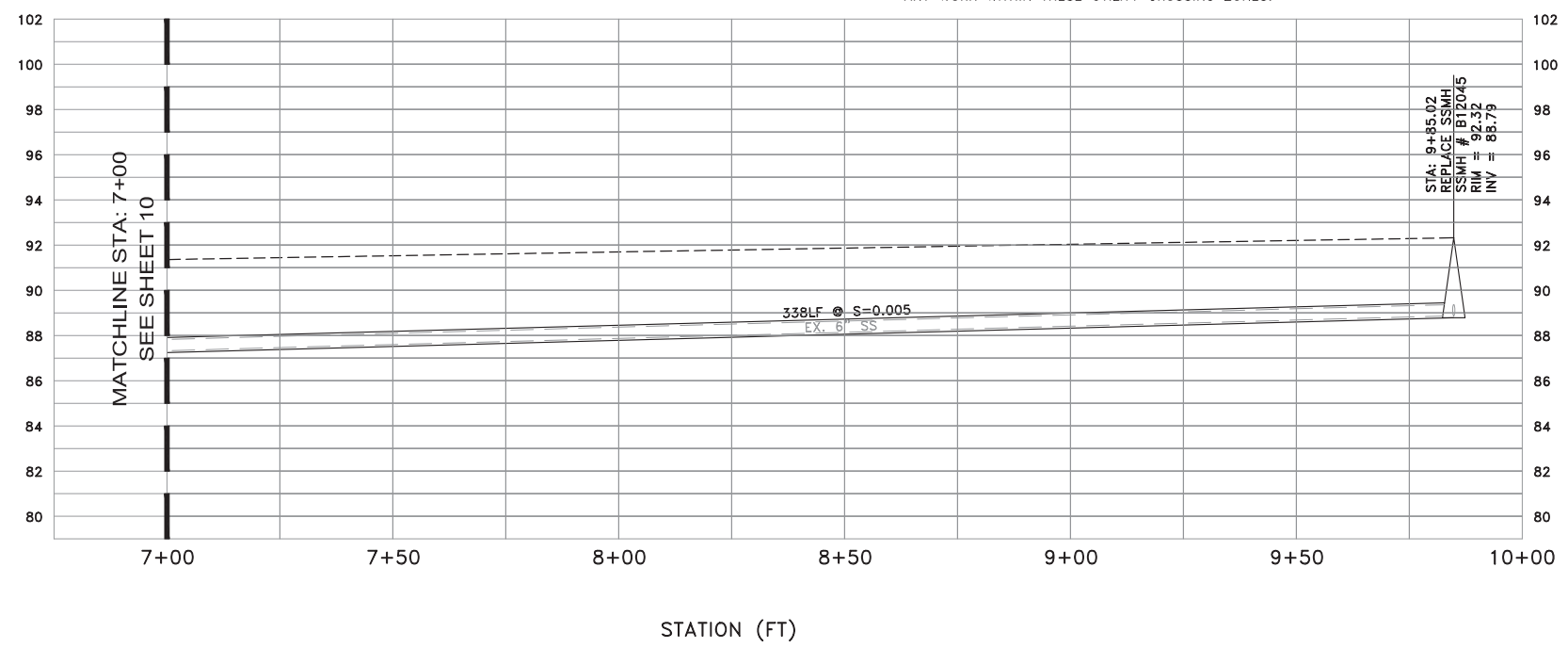
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN HOLLYBURNE AVE & WINDERMERE AVE**  
**MENLO PARK, CALIFORNIA**

|         |      |
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| SHEET   | 10   |
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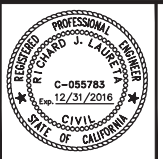
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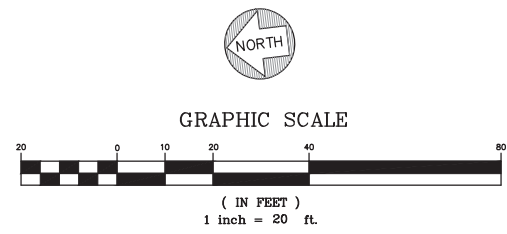
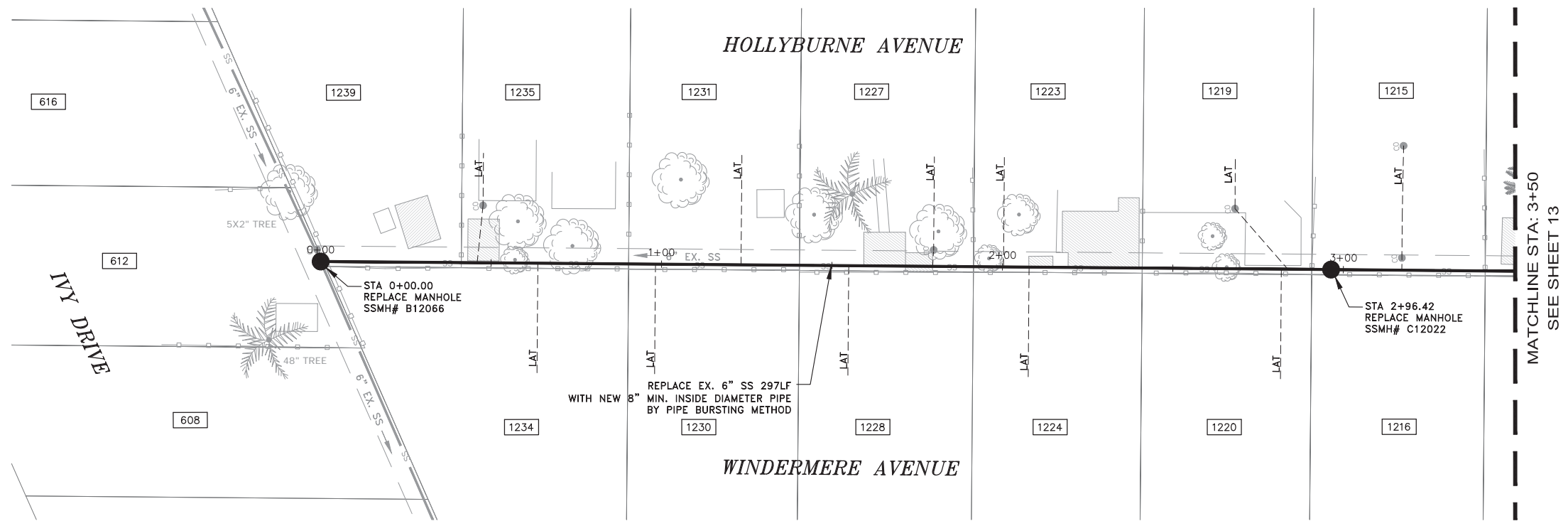
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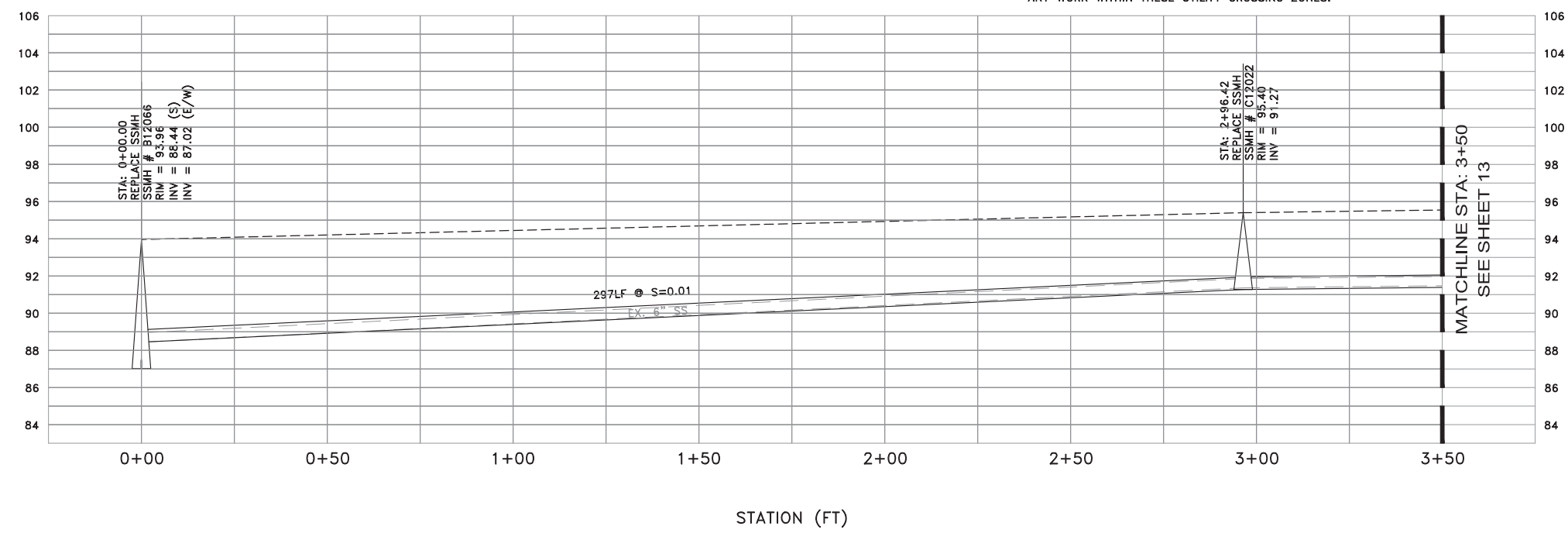
**BELLE HAVEN SEWER PROJECT PHASE II**  
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SHEET  
**11**  
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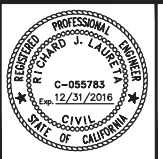


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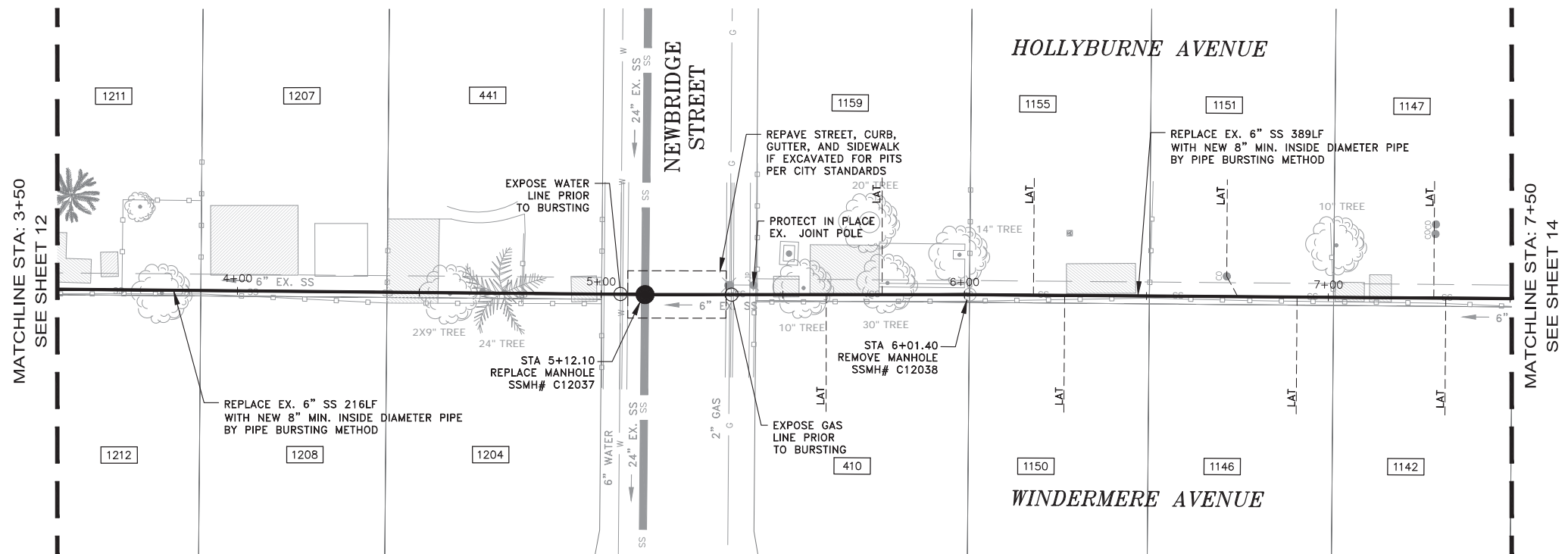
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
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**BELLE HAVEN SEWER PROJECT PHASE II**  
 EASEMENT BETWEEN HOLLYBURNE AVE & WINDERMERE AVE  
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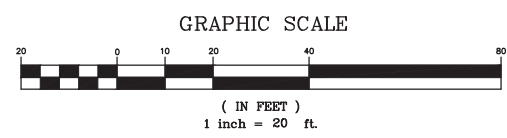
SHEET  
**12**  
 JOB NO.  
**1068**

PROFILE VIEW  
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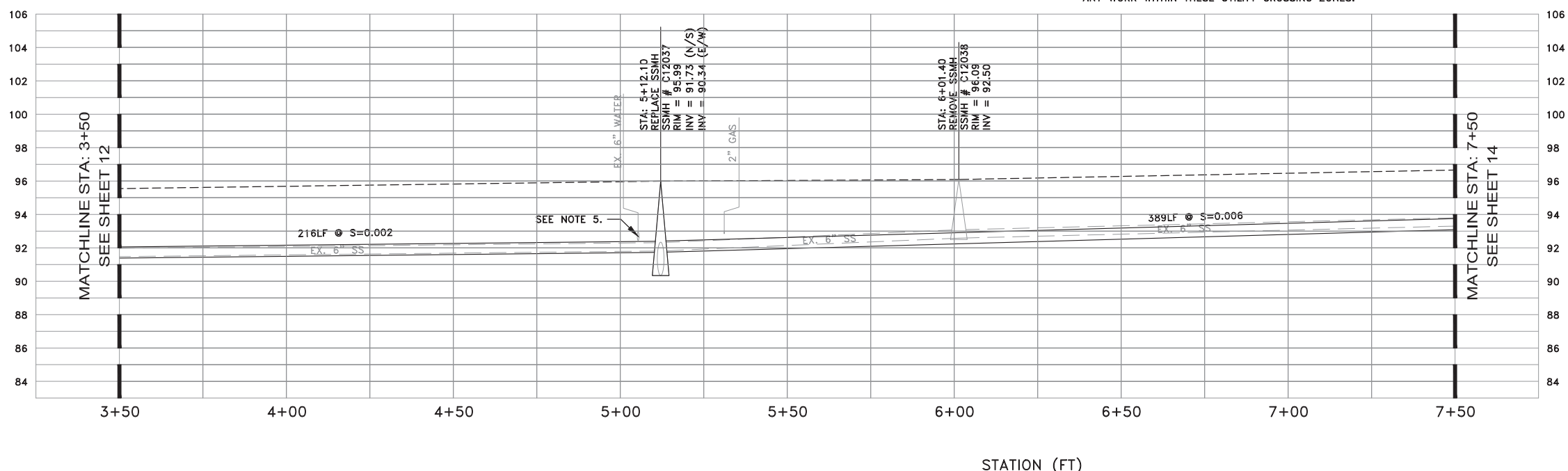
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SEE SHEET 14



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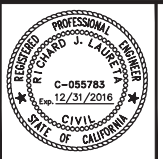
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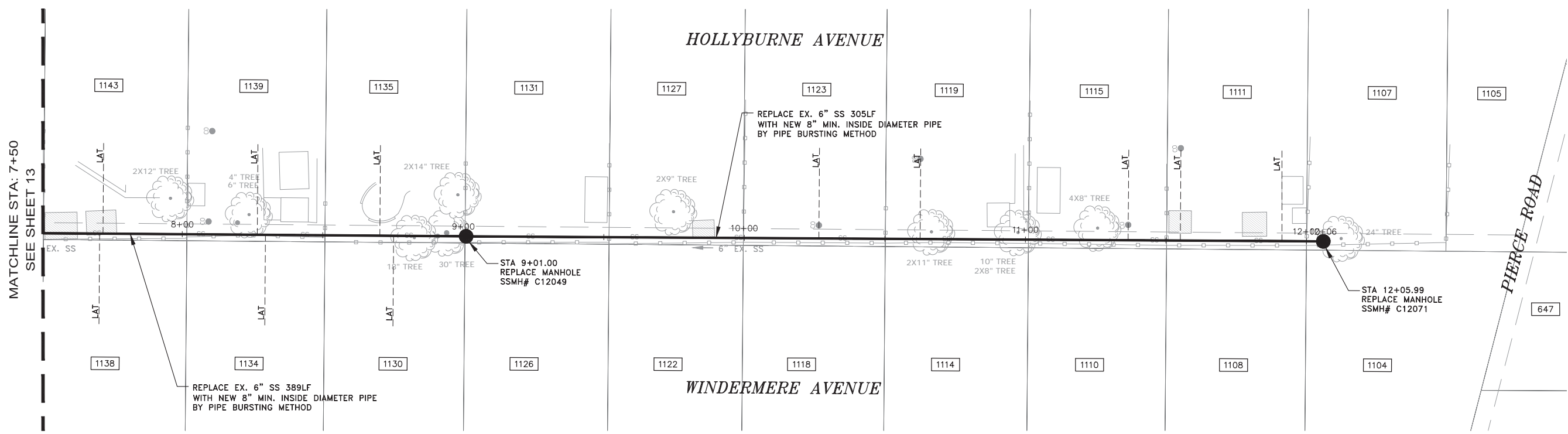
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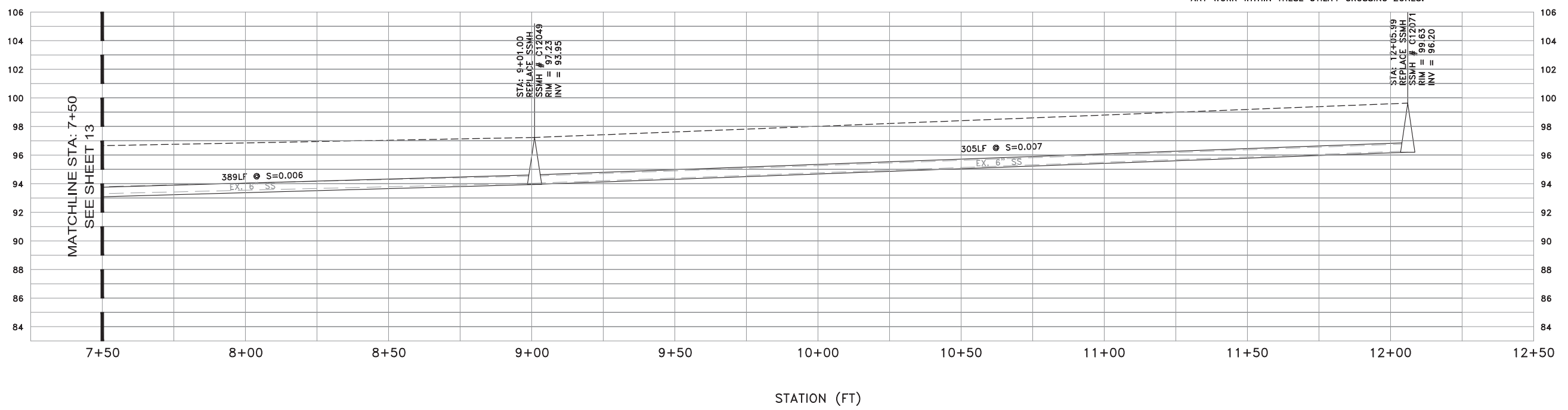
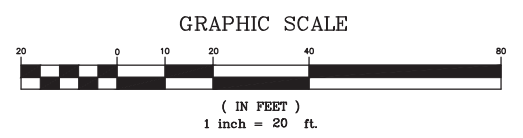
**BELLE HAVEN SEWER PROJECT PHASE II**  
EASEMENT BETWEEN HOLLYBURNE AVE & WINDERMERE AVE  
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| SHEET   | 13   |
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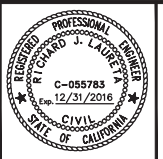
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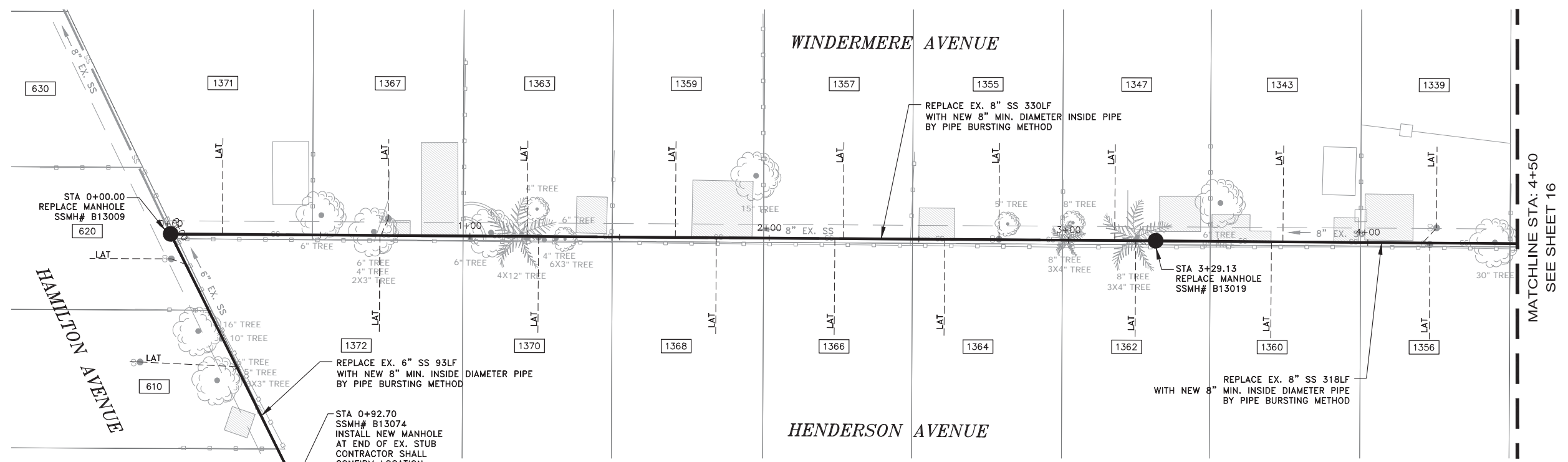
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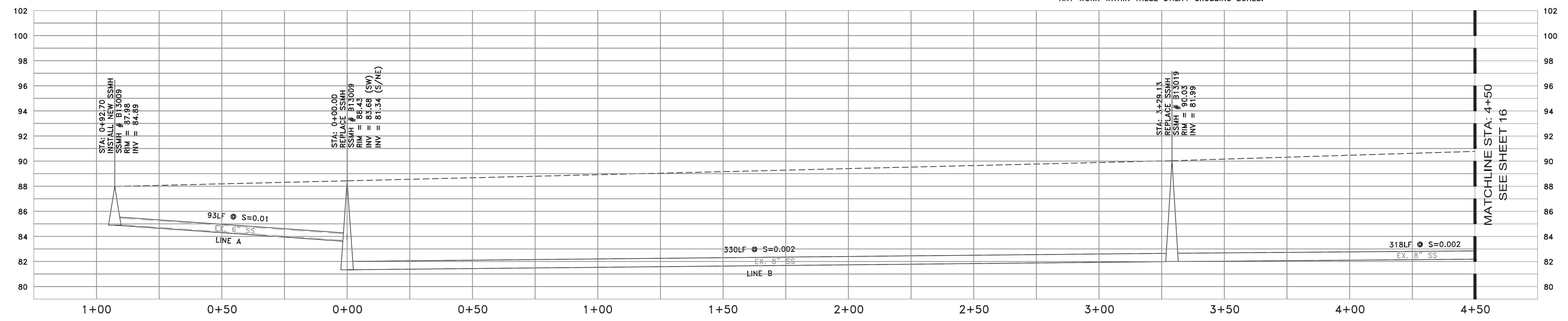
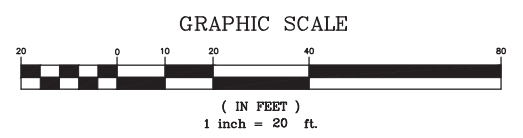
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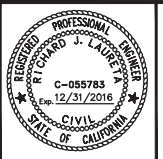
**PROFILE VIEW**  
 HORIZ: 1" = 20'  
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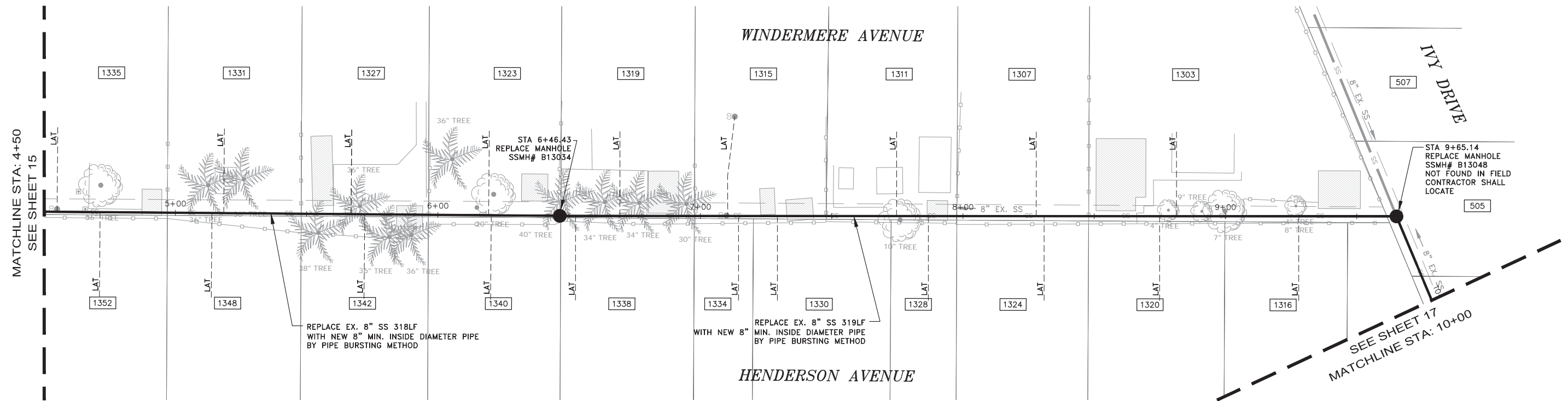
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
 EASEMENT BETWEEN WINDERMERE AVE & HENDERSON AVE  
 MENLO PARK, CALIFORNIA

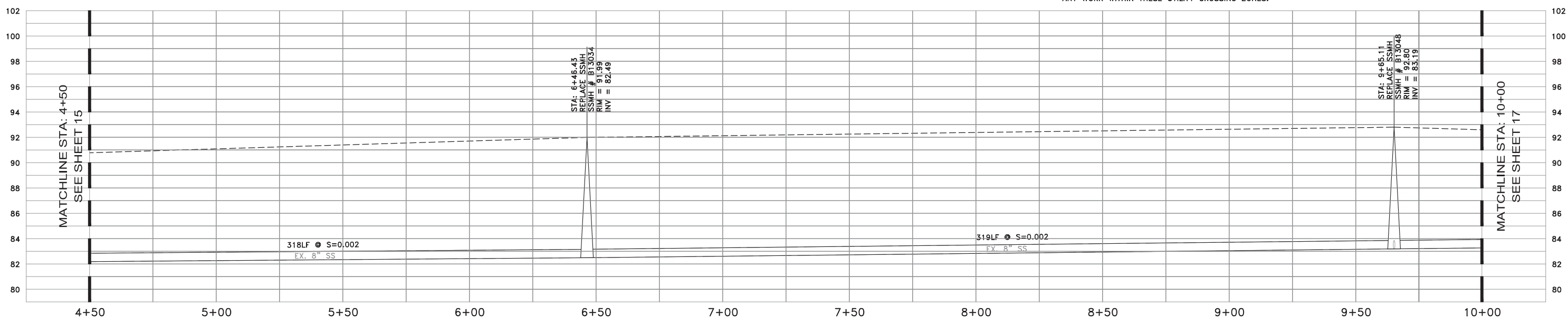
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| JOB NO. | 1068 |





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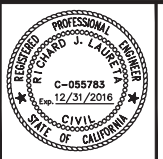
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
 EASEMENT BETWEEN WINDERMERE AVE & HENDERSON AVE  
 MENLO PARK, CALIFORNIA

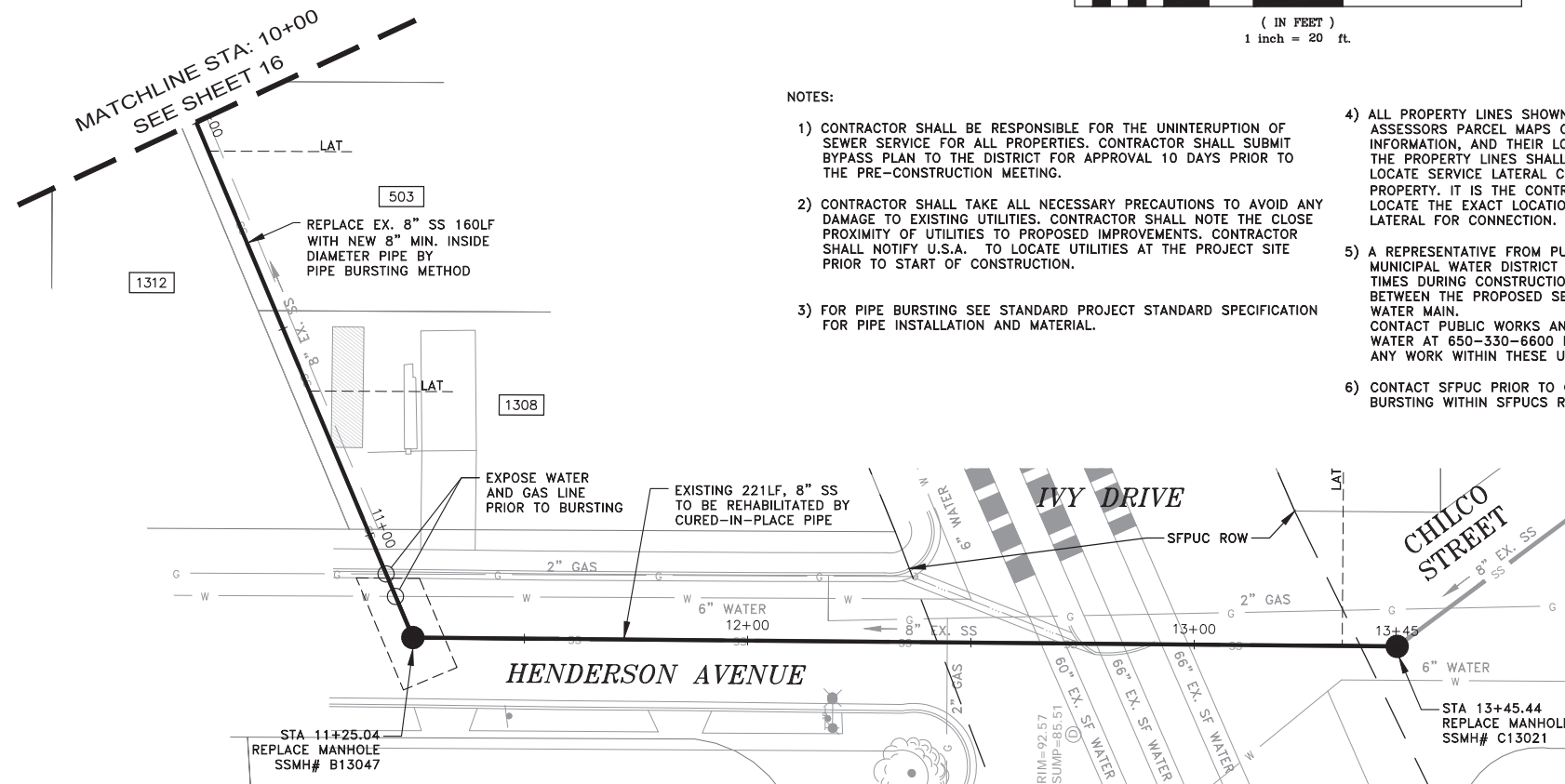
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**16**  
 JOB NO.  
**1068**



GRAPHIC SCALE

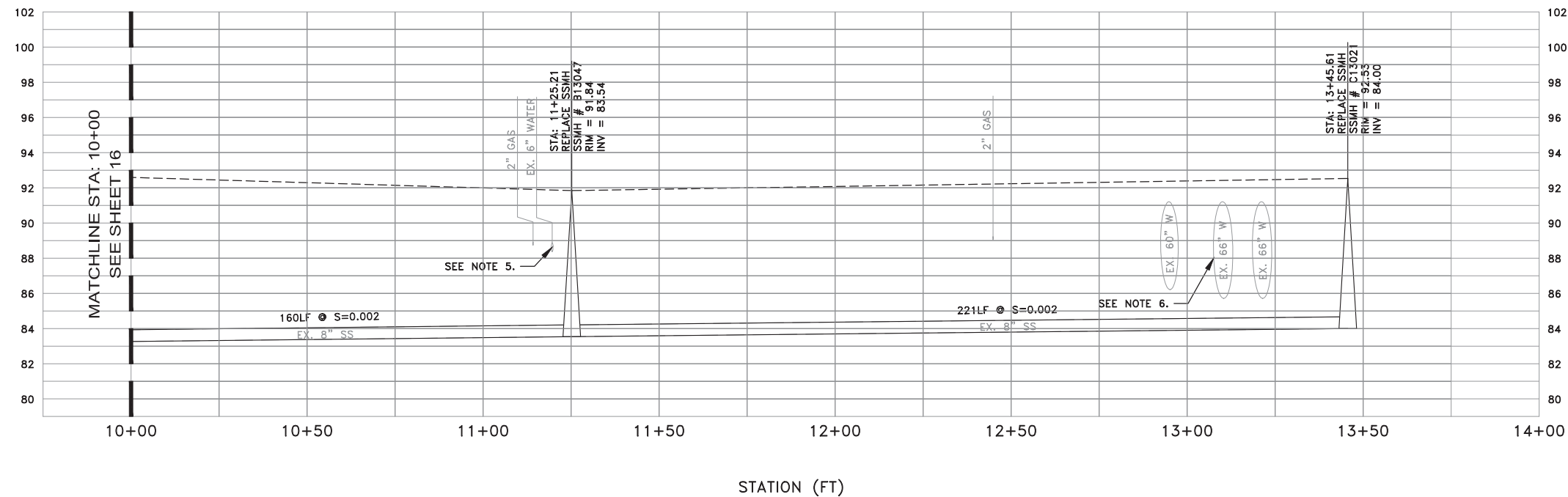


( IN FEET )  
1 inch = 20 ft.



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PROFILE VIEW  
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VERT: 1" = 4'

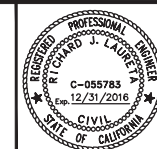
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1758.5



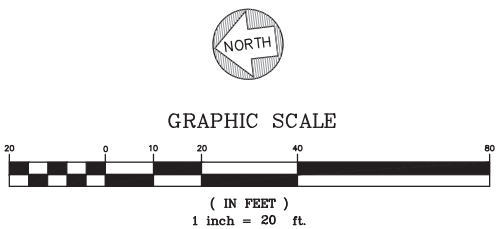
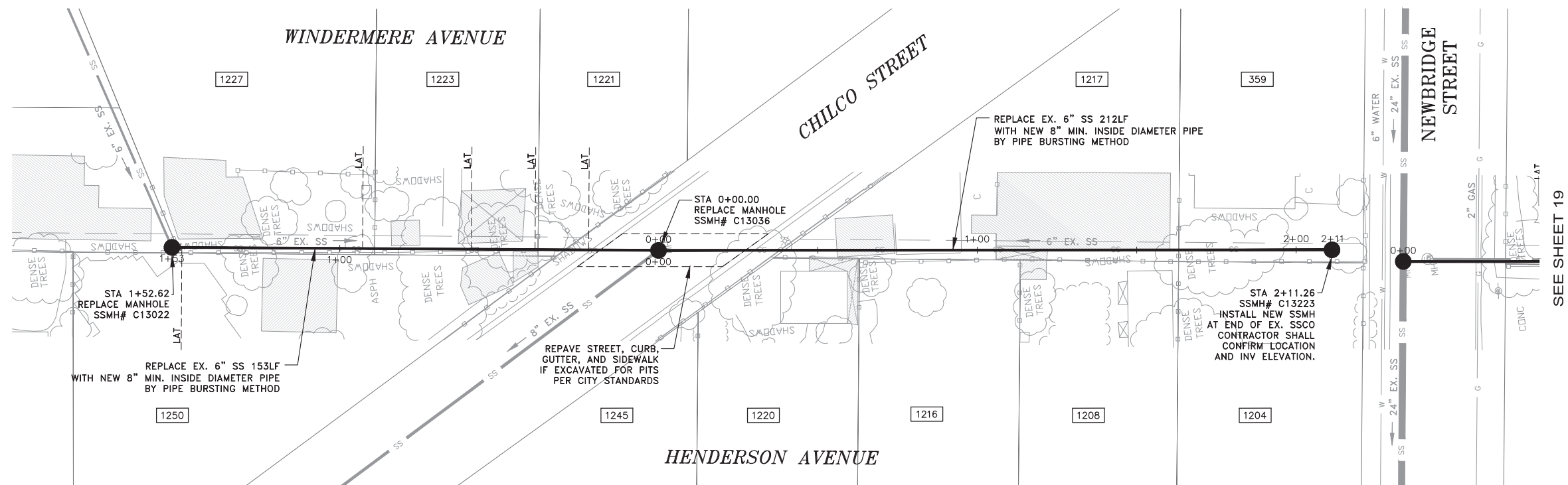
**BELLE HAVEN SEWER PROJECT PHASE II**  
**HENDERSON AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET

17

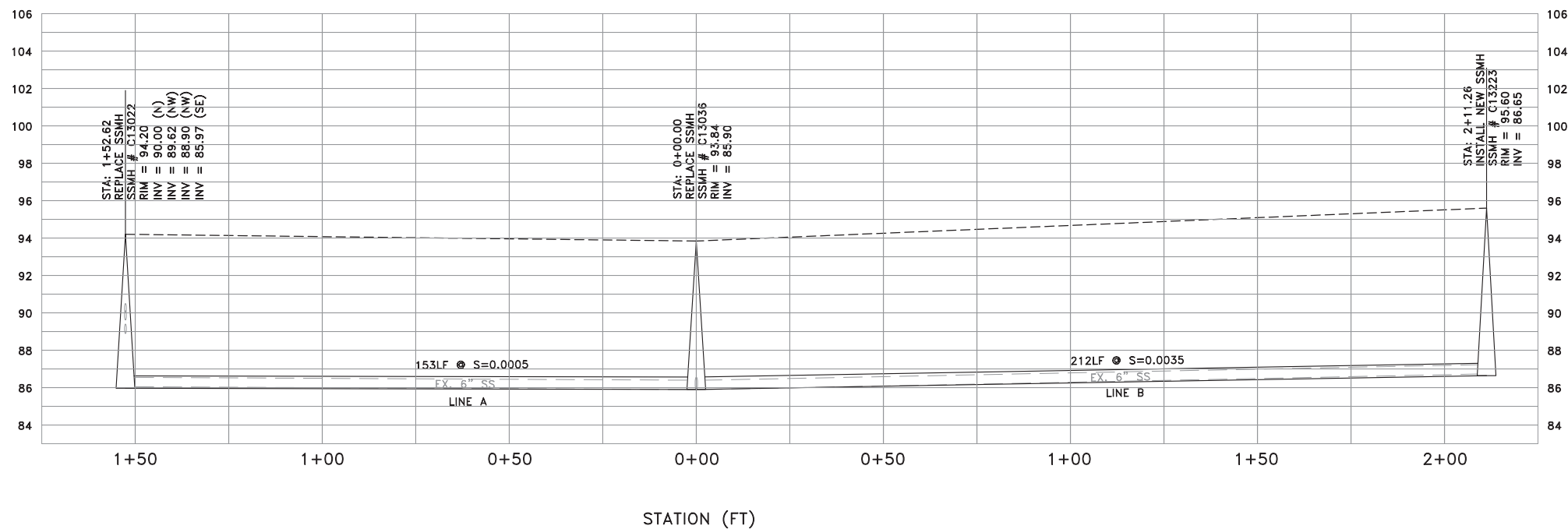
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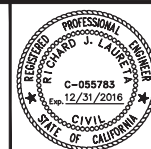
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**WEST BAY**  
 SANITARY DISTRICT  
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PROJECT No. 1758.5



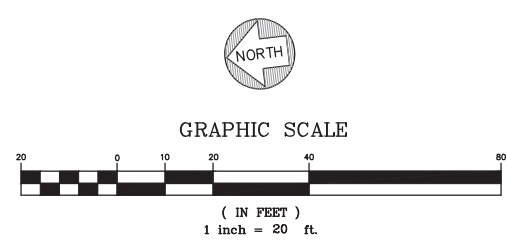
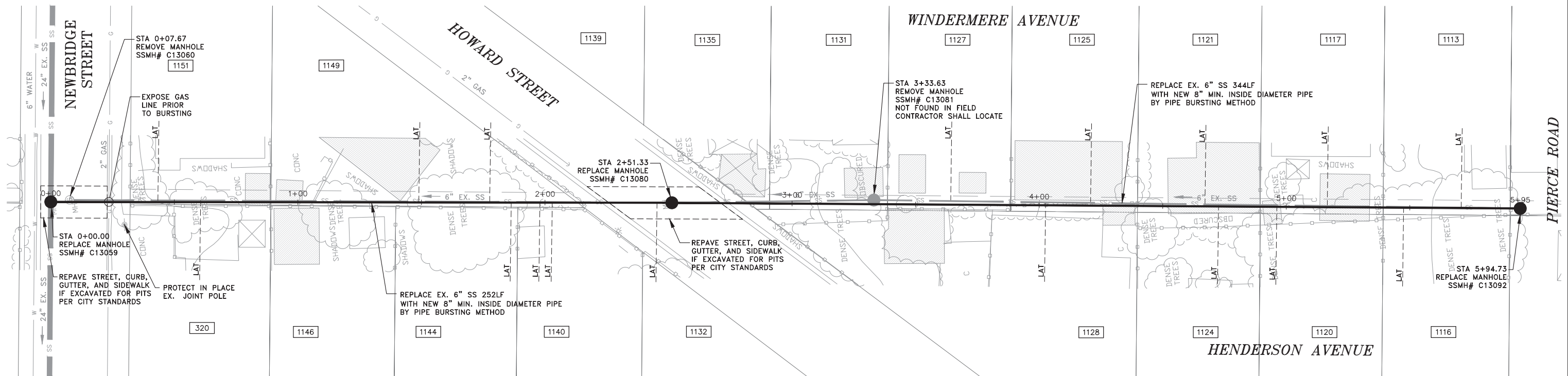
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN HENDERSON AVE & WINDERMERE AVE**  
**MENLO PARK, CALIFORNIA**

SHEET

18

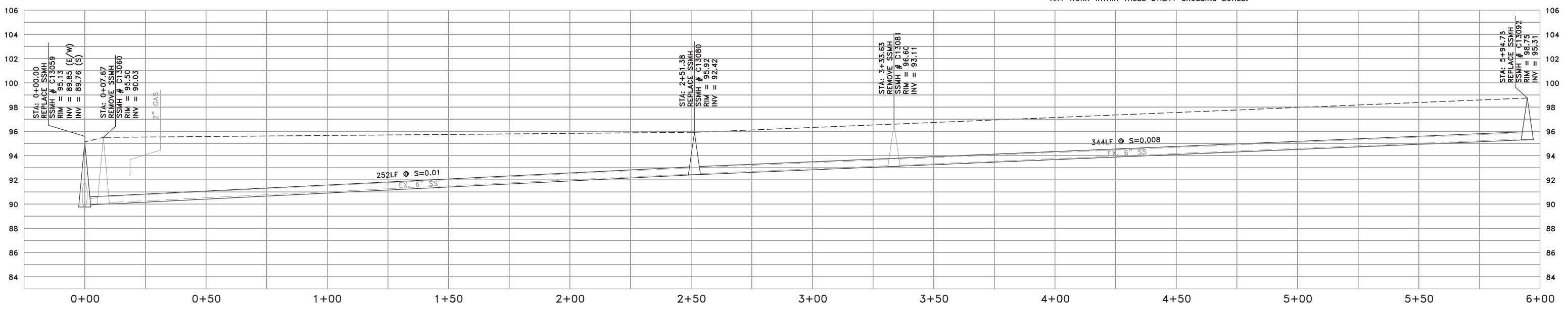
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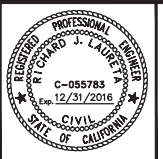
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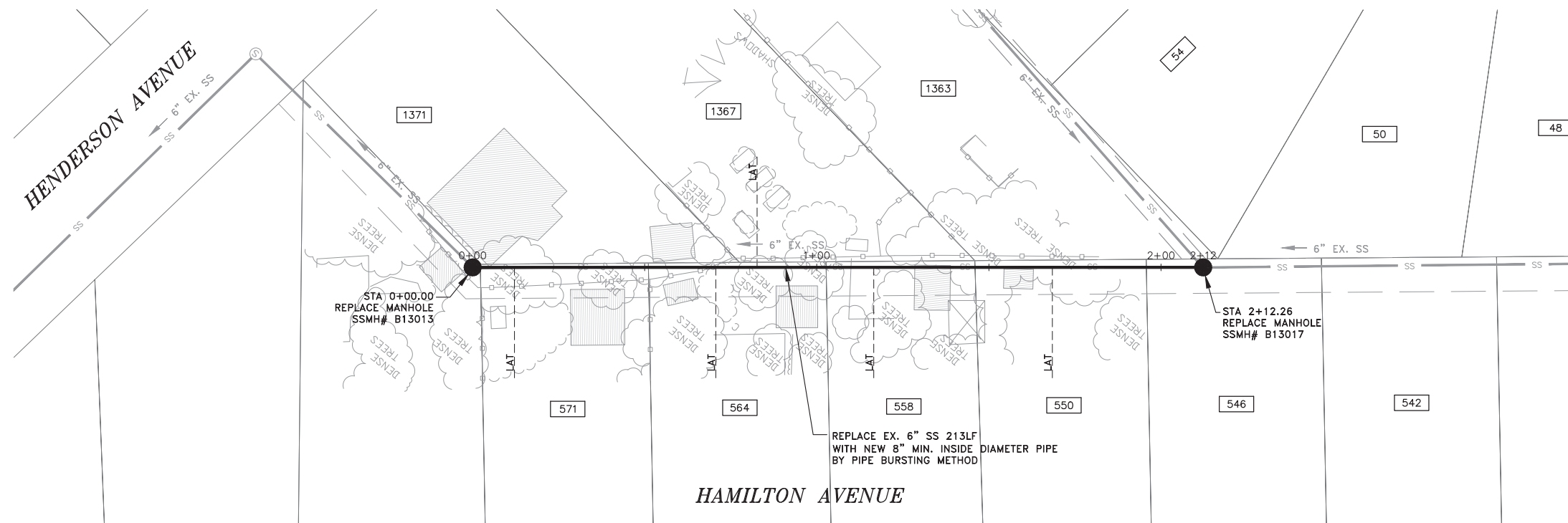
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
 EASEMENT BETWEEN WINDERMERE AVE & HENDERSON AVE  
 MENLO PARK, CALIFORNIA

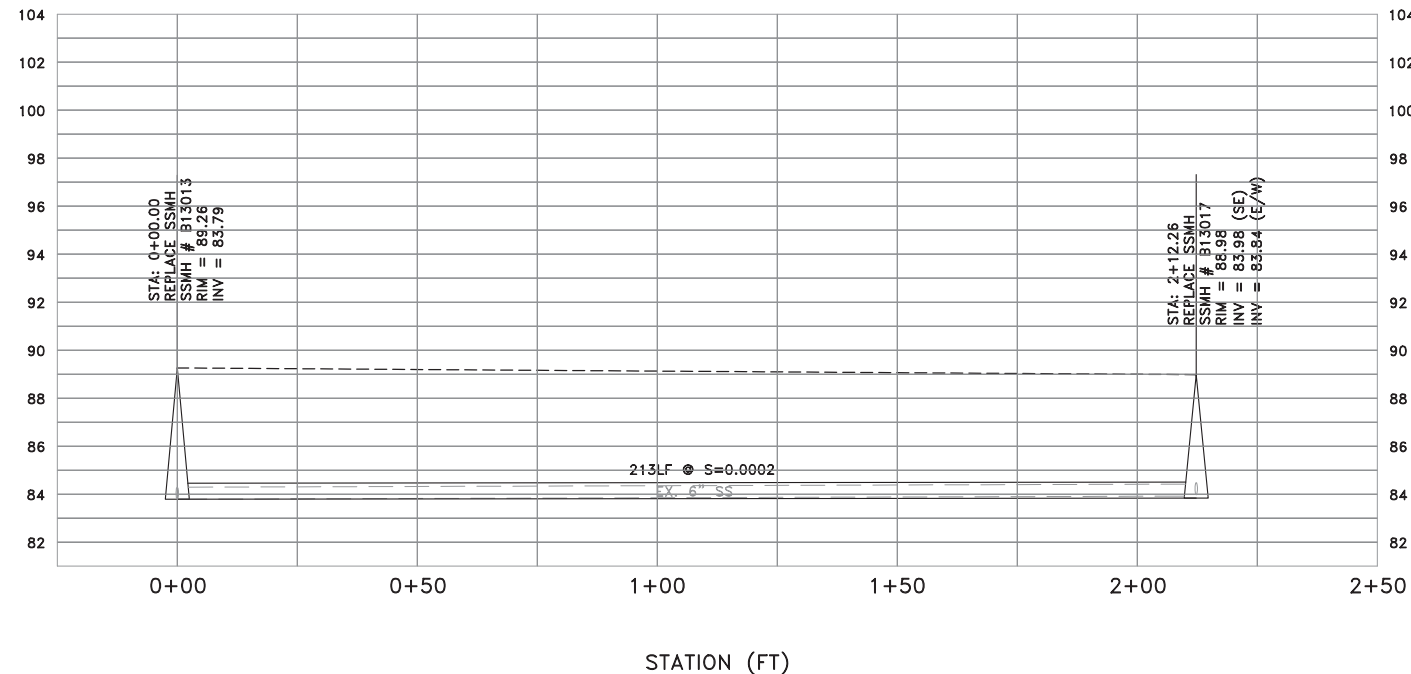
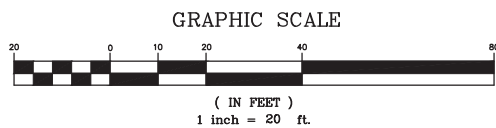
SHEET  
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**HAMILTON AVENUE**

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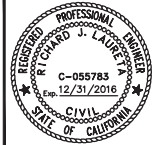
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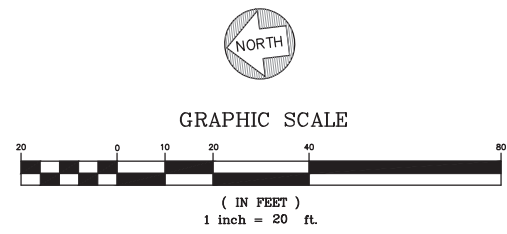
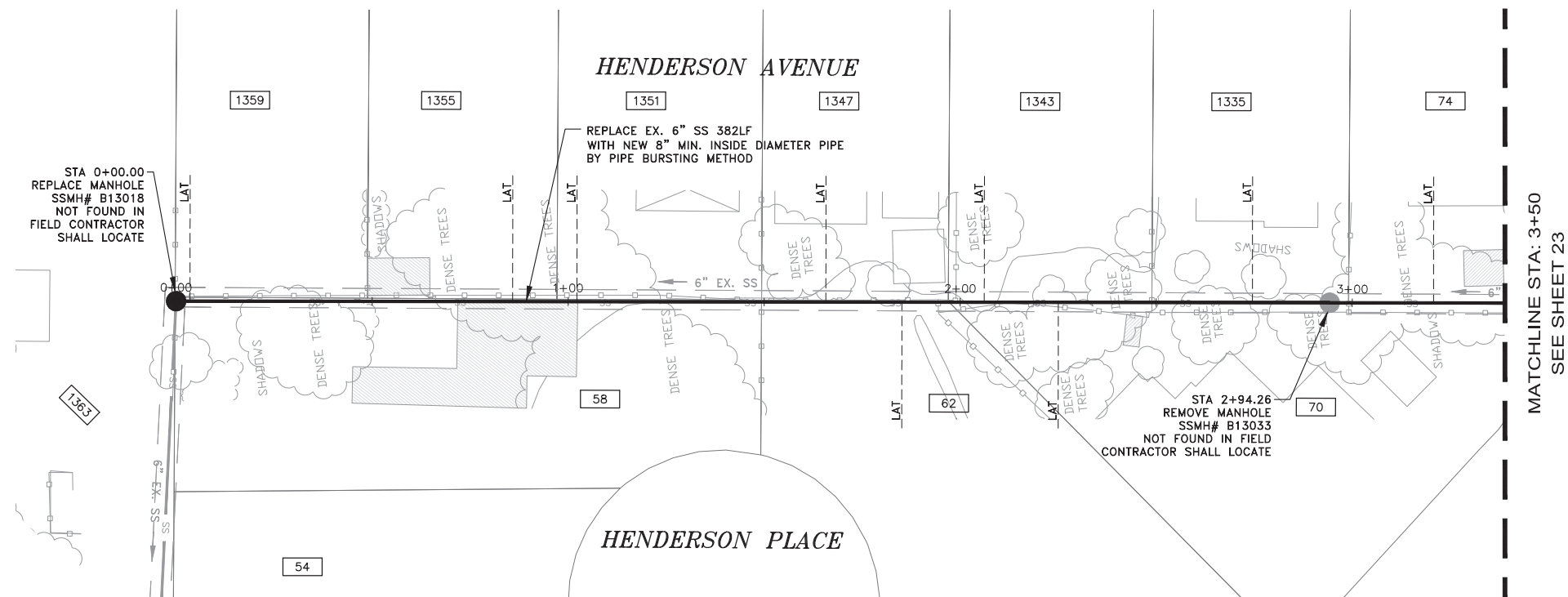
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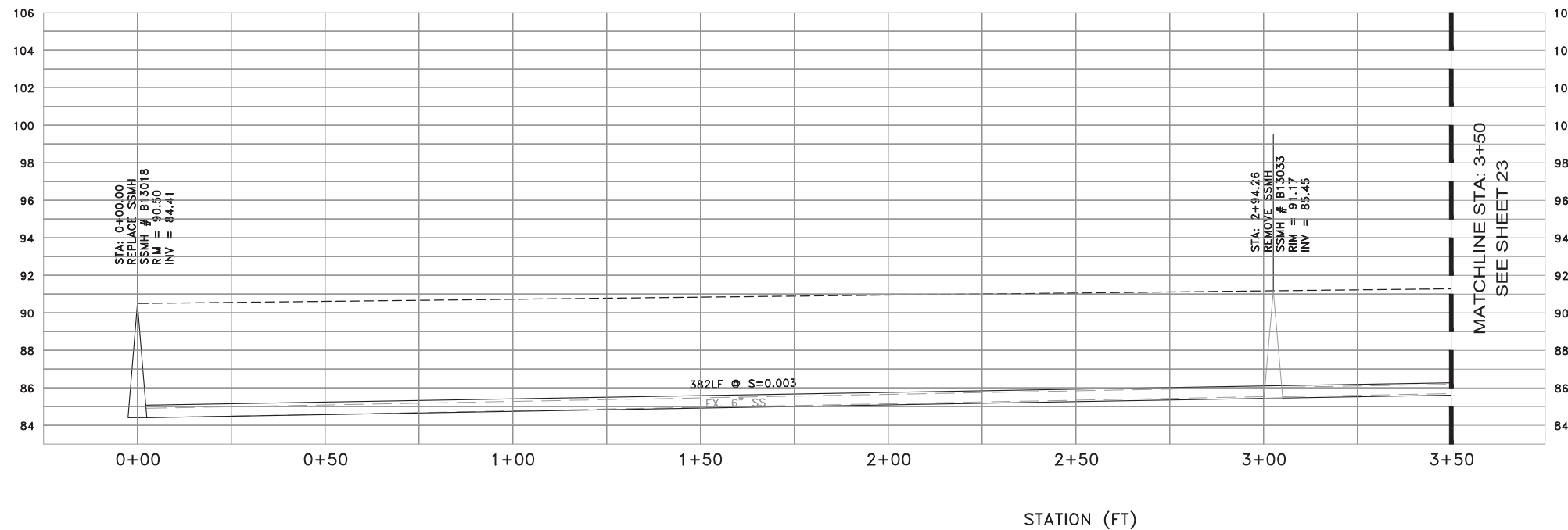
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN HENDERSON AVE & HAMILTON AVE**  
**MENLO PARK, CALIFORNIA**

SHEET  
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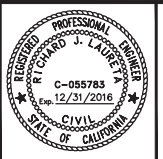
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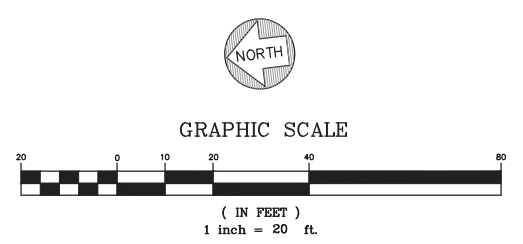
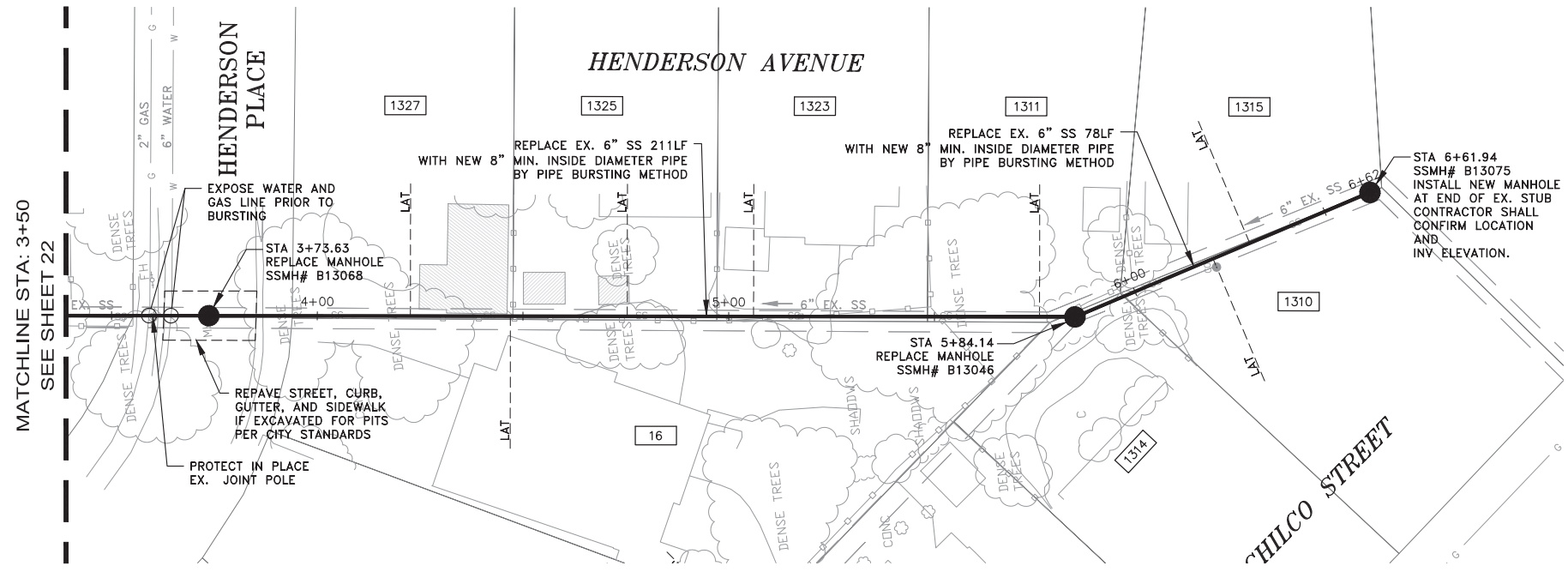
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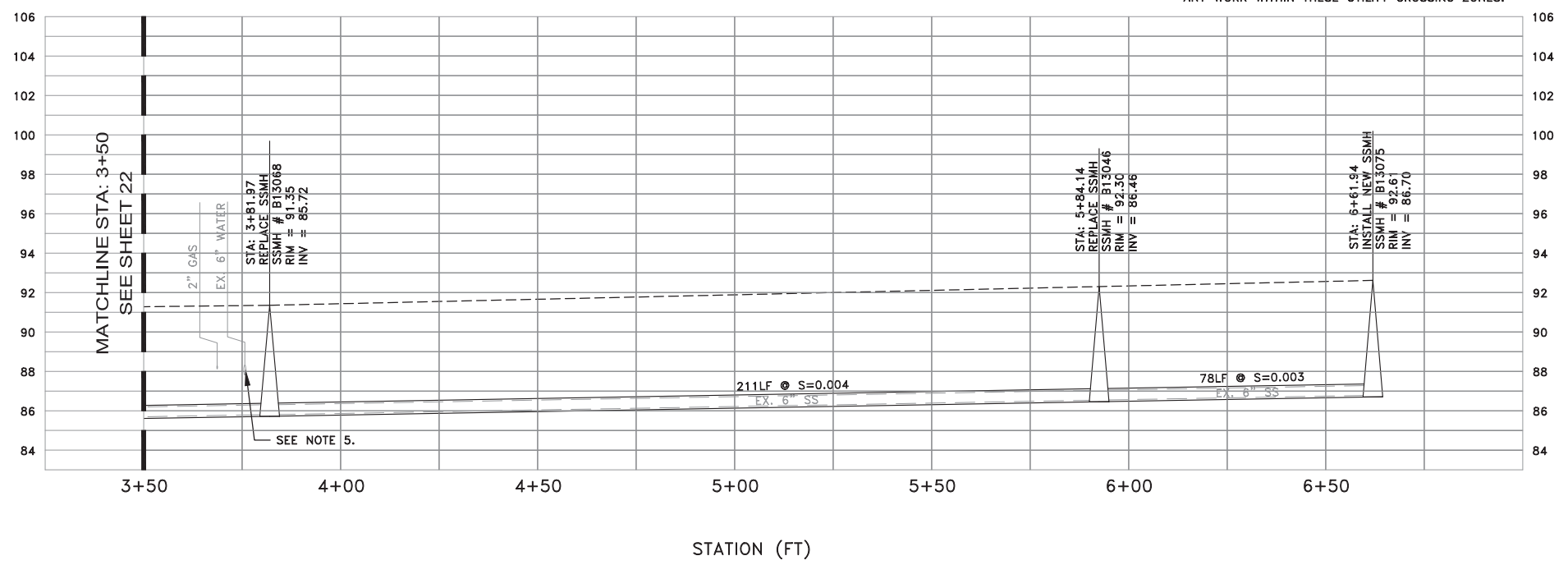
**BELLE HAVEN SEWER PROJECT PHASE II**  
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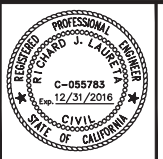
**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

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| DATE:       | 6/25/15  | 04/15/16                 | ISSUED FOR BOARD REVIEW |
| SCALE:      | AS NOTED | 04/26/16                 | ISSUED FOR BOARD REVIEW |
| DESIGNED:   | JJF      |                          |                         |
| DRAWN:      | PJG      |                          |                         |
| CHECKED:    | JJF      |                          |                         |
| PROJ. ENGR: | RJL      |                          |                         |
| BY          | DATE     | DESCRIPTION OF REVISIONS | APP'D                   |



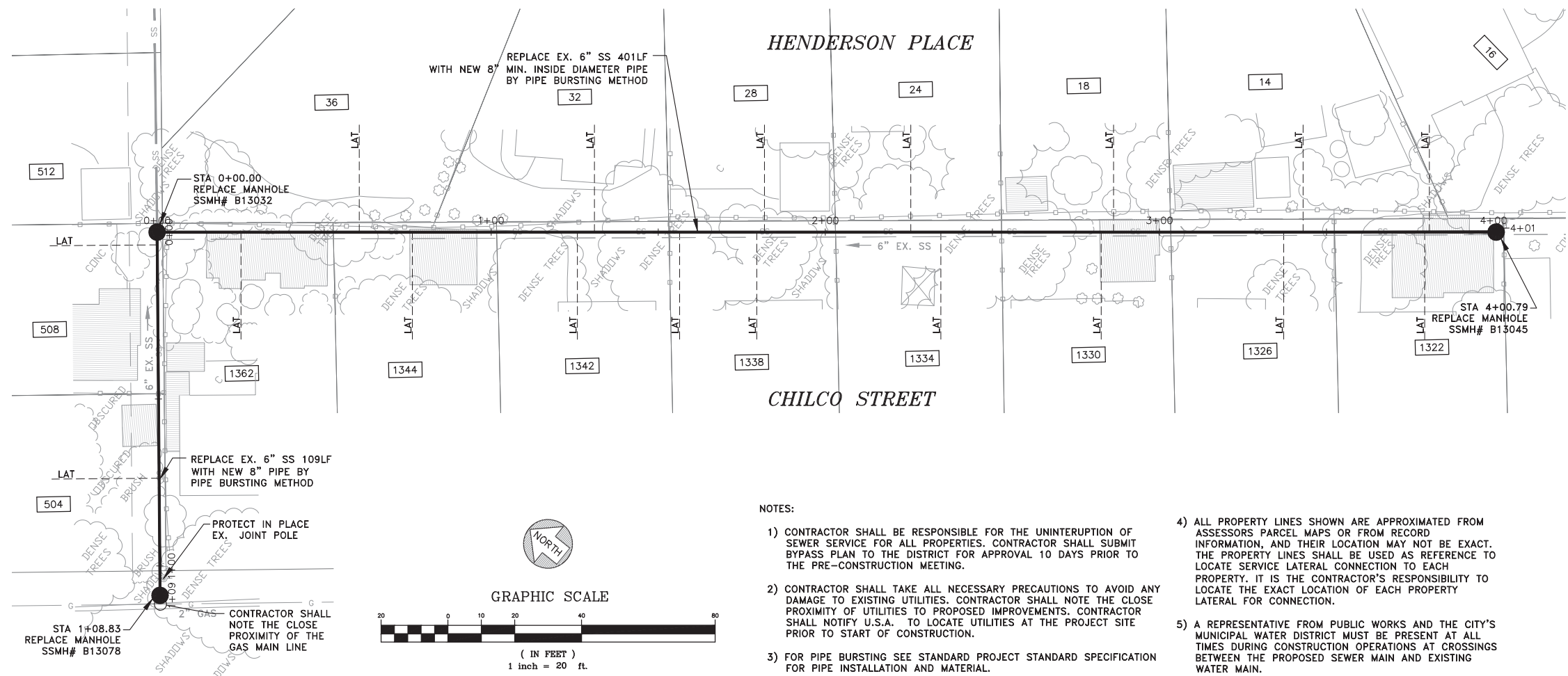
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



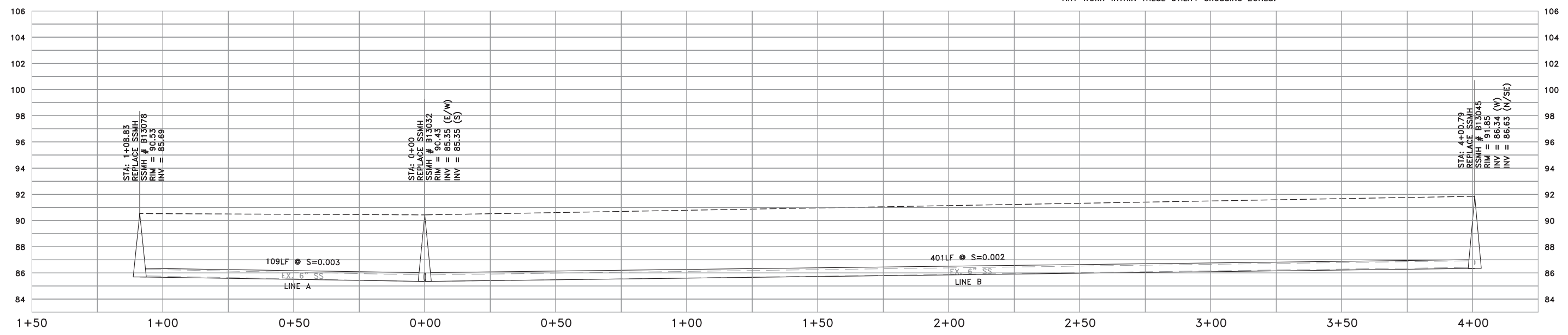
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT ON HENDERSON AVE**  
**MENLO PARK, CALIFORNIA**

SHEET  
**23**  
 JOB NO.  
**1068**



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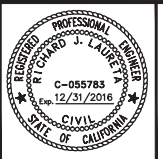


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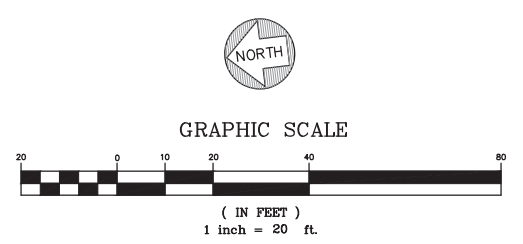
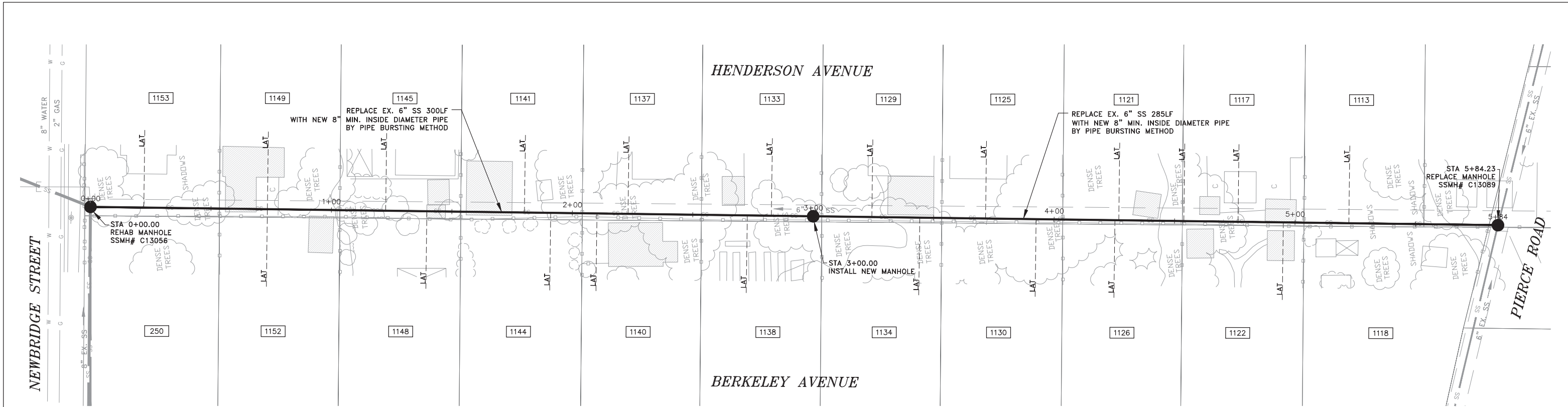
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN HENDERSON PL & CHILCO ST**  
**MENLO PARK, CALIFORNIA**

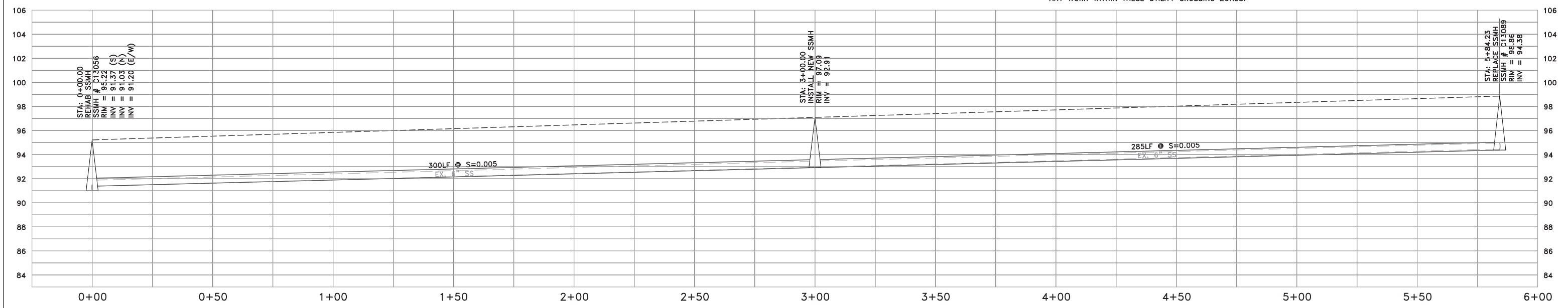
SHEET  
**24**  
JOB NO.  
**1068**





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STATION (FT)

**PROFILE VIEW**  
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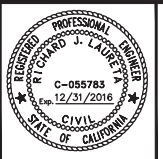
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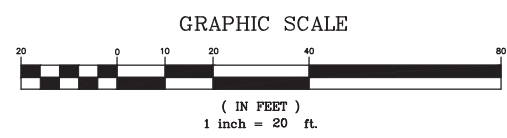
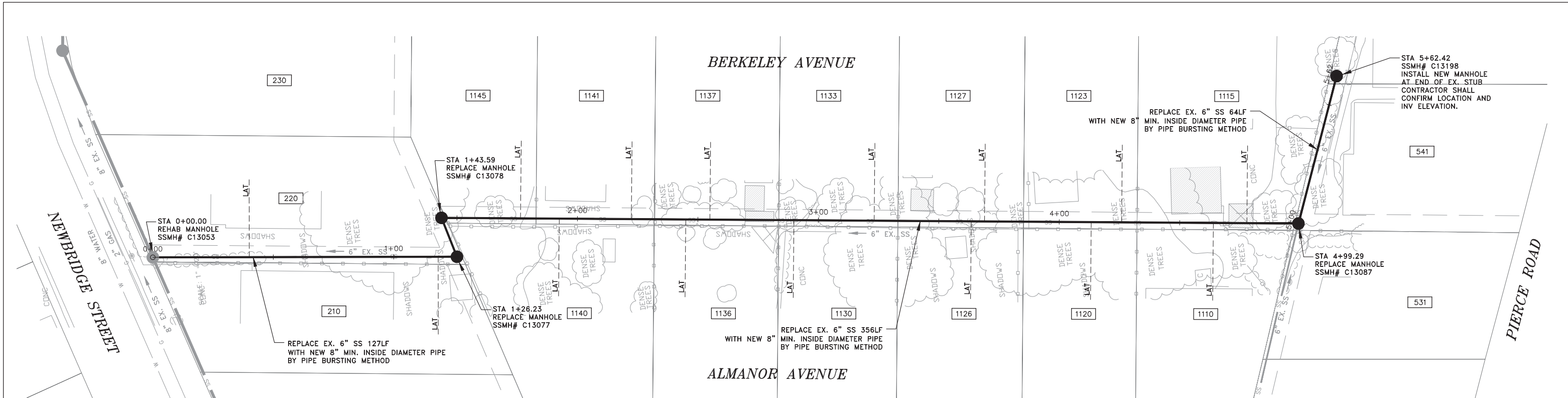
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1758.5



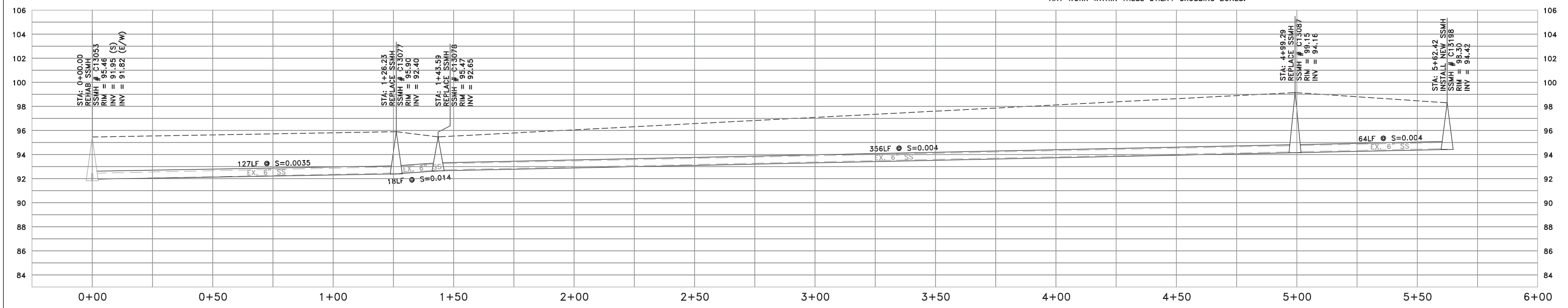
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN HENDERSON AVE & BERKELEY AVE**  
**MENLO PARK, CALIFORNIA**

|         |      |
|---------|------|
| SHEET   | 25   |
| JOB NO. | 1068 |



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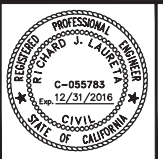
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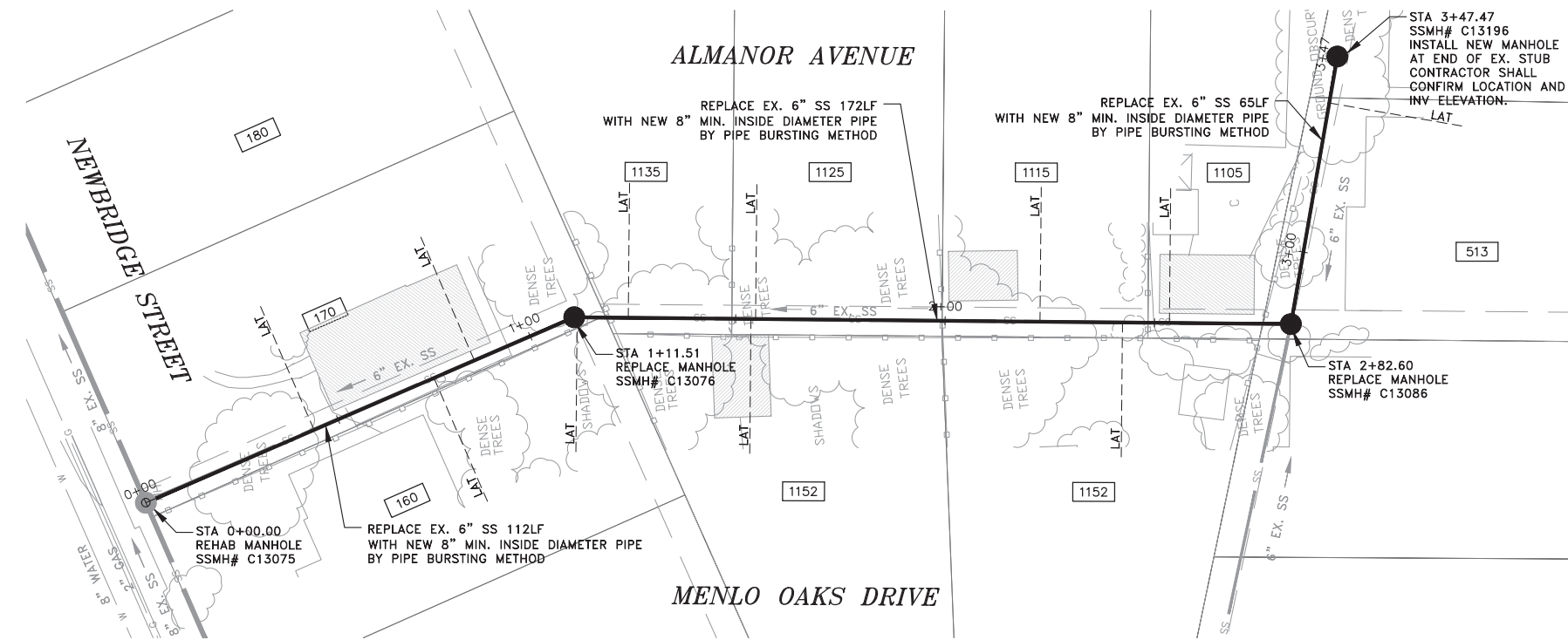
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



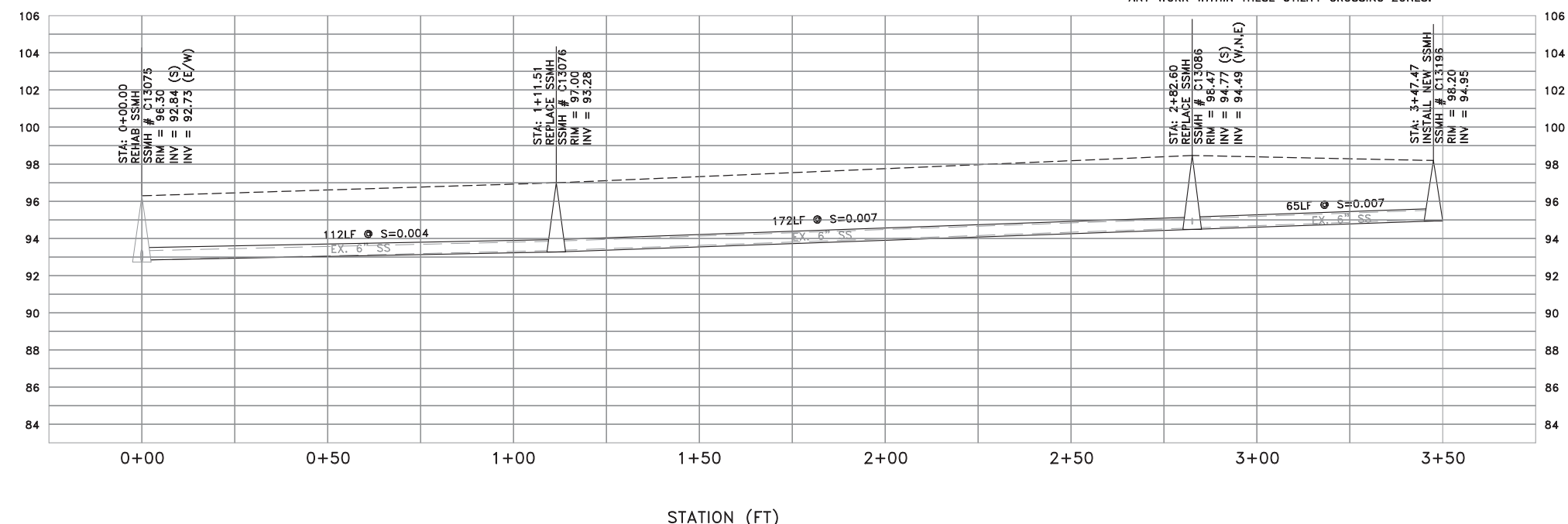
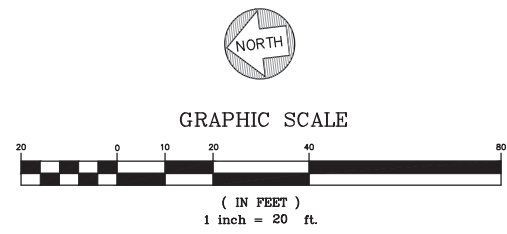
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN BERKELEY AVE & ALMANOR AVE**  
**MENLO PARK, CALIFORNIA**

|         |      |
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| SHEET   | 26   |
| JOB NO. | 1068 |



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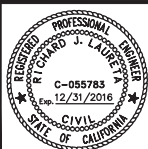
PROFILE VIEW  
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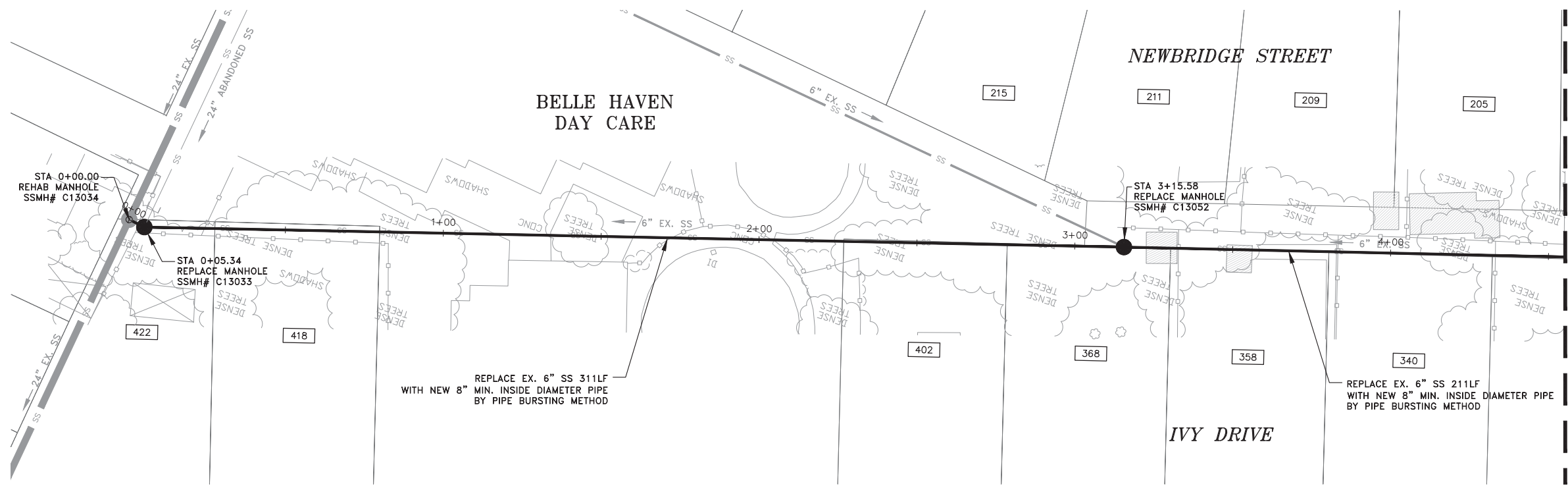
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5

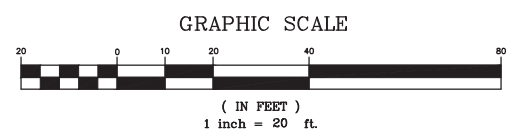


**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN ALMANOR AVE & MENLO OAKS DR**  
**MENLO PARK, CALIFORNIA**

SHEET  
 27  
 JOB NO.  
 1068

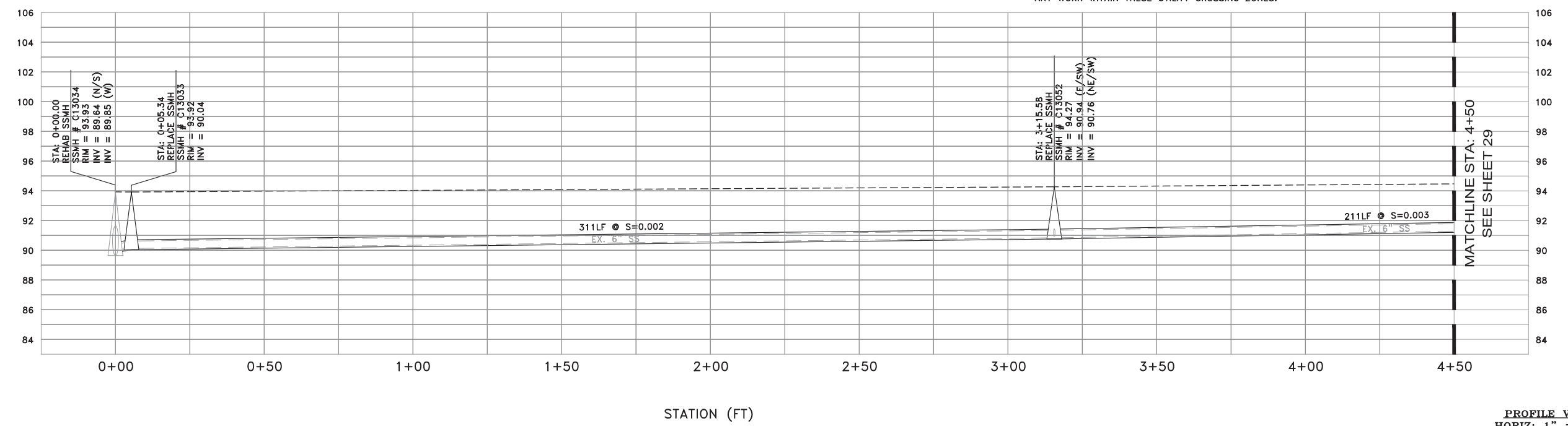


MATCHLINE STA: 4+50  
SEE SHEET 29



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MATCHLINE STA: 4+50  
SEE SHEET 29

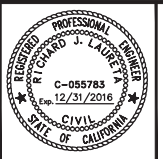
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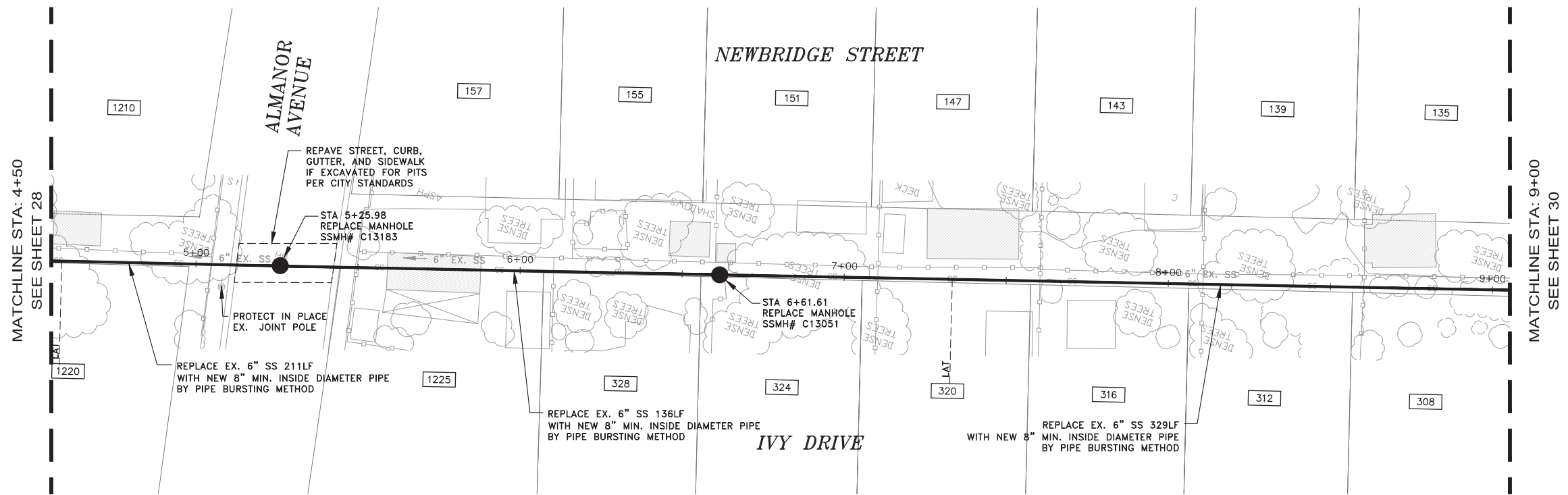
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**WEST BAY**  
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PROJECT No. 1758.5



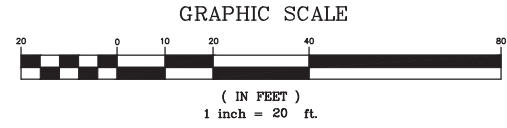
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN NEWBRIDGE ST & IVY DR**  
**MENLO PARK, CALIFORNIA**

SHEET  
**28**  
JOB NO.  
**1068**



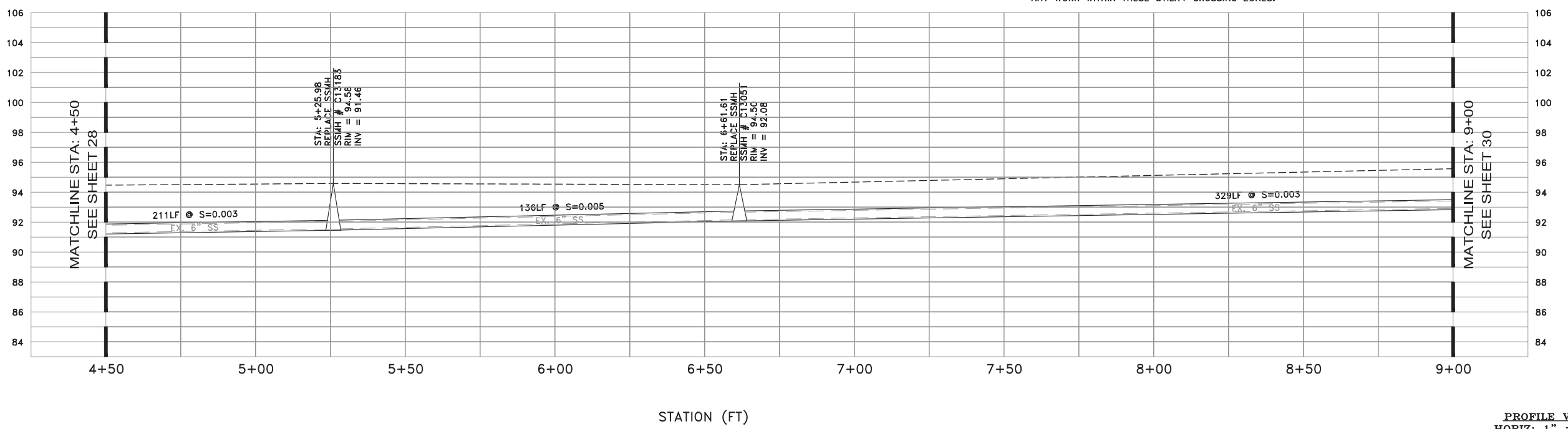
MATCHLINE STA: 4+50  
SEE SHEET 28

MATCHLINE STA: 9+00  
SEE SHEET 30



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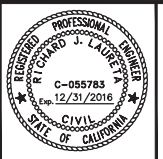
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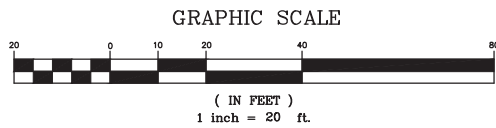
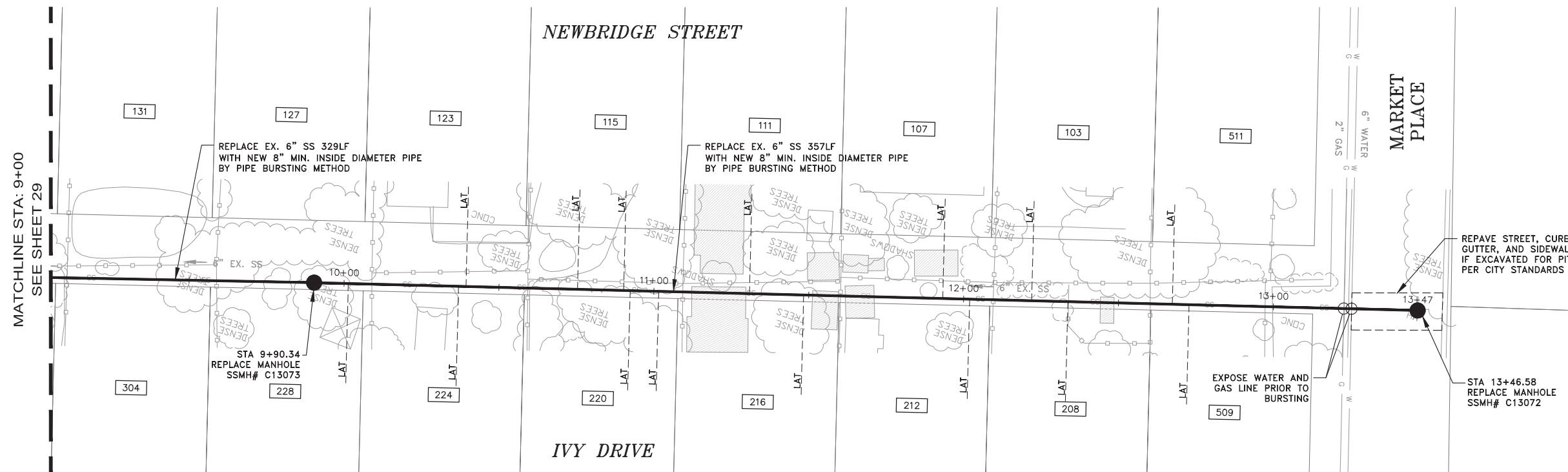
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1758.5



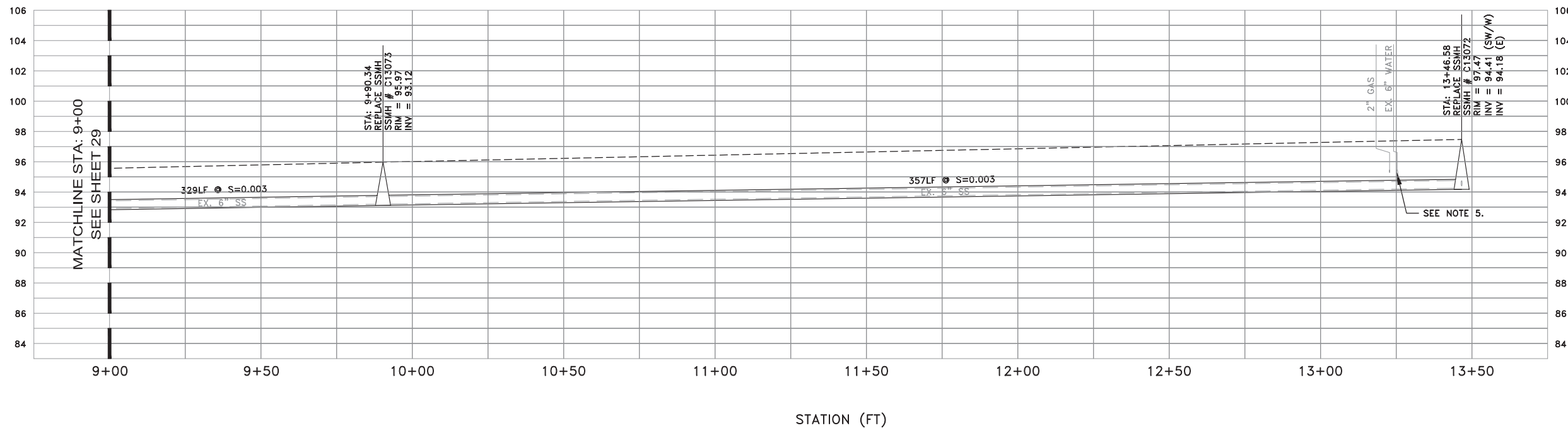
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN NEWBRIDGE ST & IVY DR**  
**MENLO PARK, CALIFORNIA**

SHEET  
**29**  
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**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

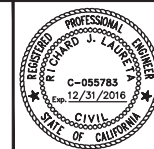
|             |          |                          |                         |
|-------------|----------|--------------------------|-------------------------|
| DATE:       | 6/25/15  | 04/15/16                 | ISSUED FOR BOARD REVIEW |
| SCALE:      | AS NOTED | 04/26/16                 | ISSUED FOR BOARD REVIEW |
| DESIGNED:   | JJF      |                          |                         |
| DRAWN:      | PJG      |                          |                         |
| CHECKED:    | JJF      |                          |                         |
| PROJ. ENGR: | RJL      |                          |                         |
| BY          | DATE     | DESCRIPTION OF REVISIONS | APP'D                   |



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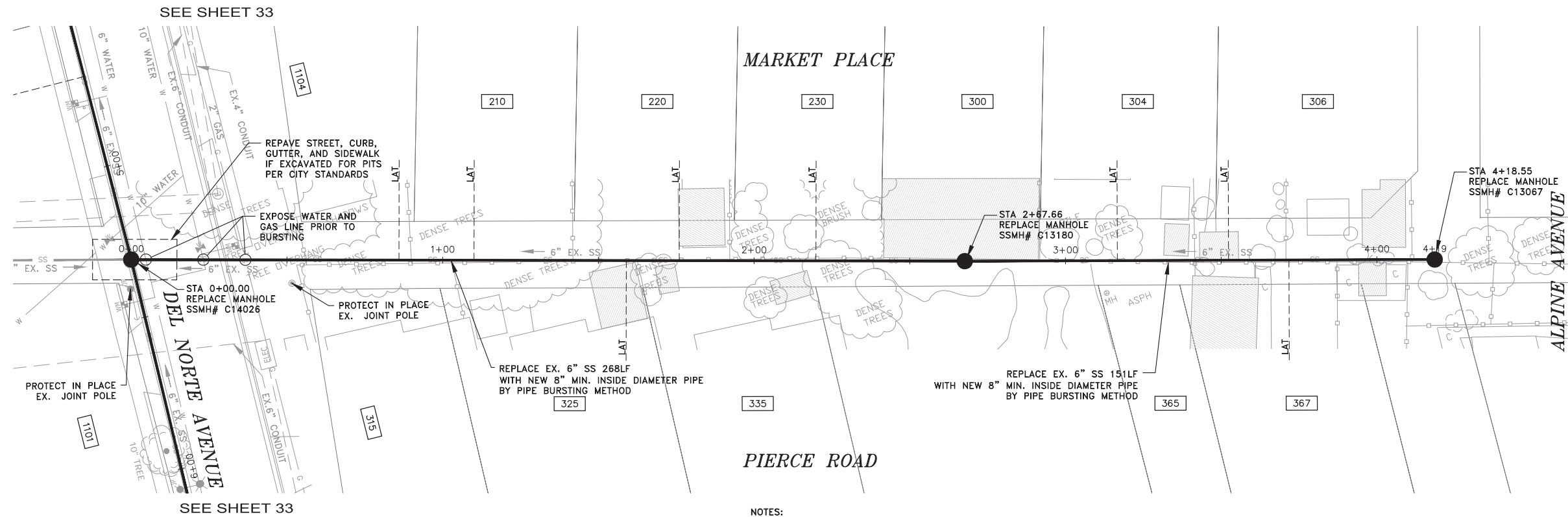
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1758.5



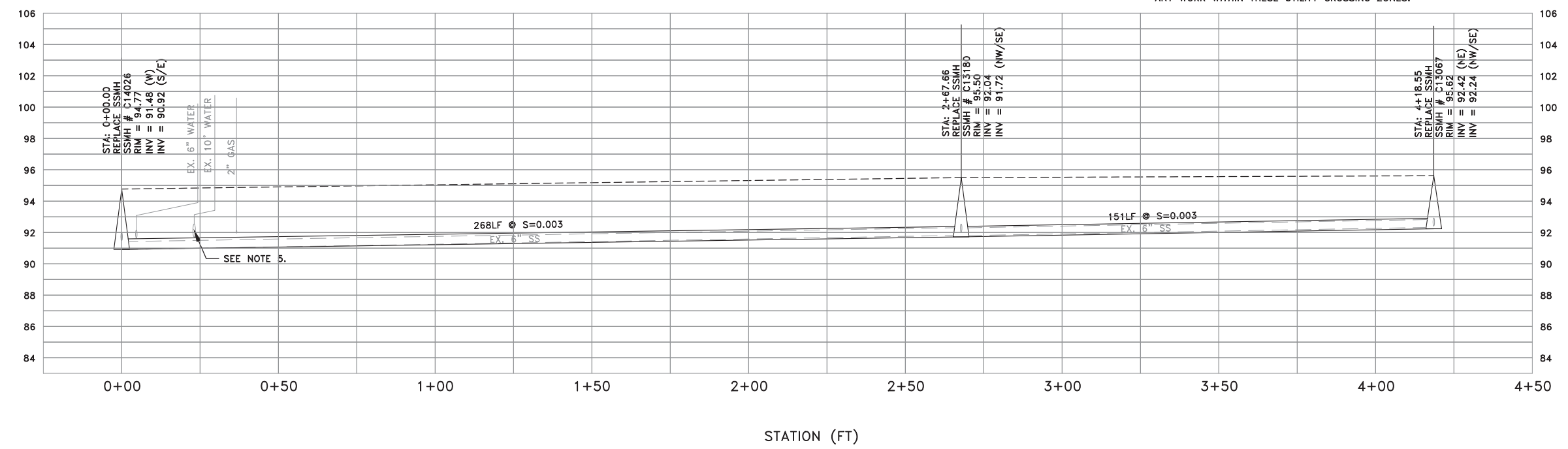
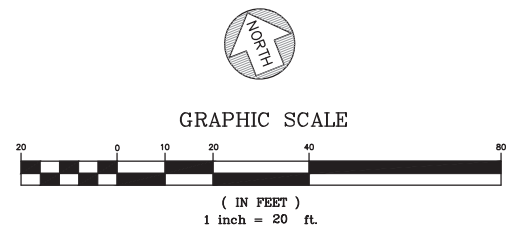
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN NEWBRIDGE ST & IVY DR**  
**MENLO PARK, CALIFORNIA**

SHEET  
**30**  
 JOB NO.  
**1068**



**NOTES:**

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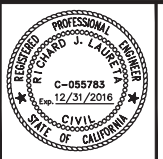
**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

|             |          |                          |                         |
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| DATE:       | 6/25/15  | 04/15/16                 | ISSUED FOR BOARD REVIEW |
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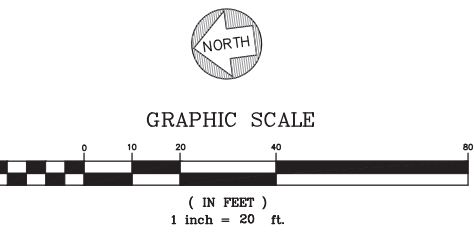
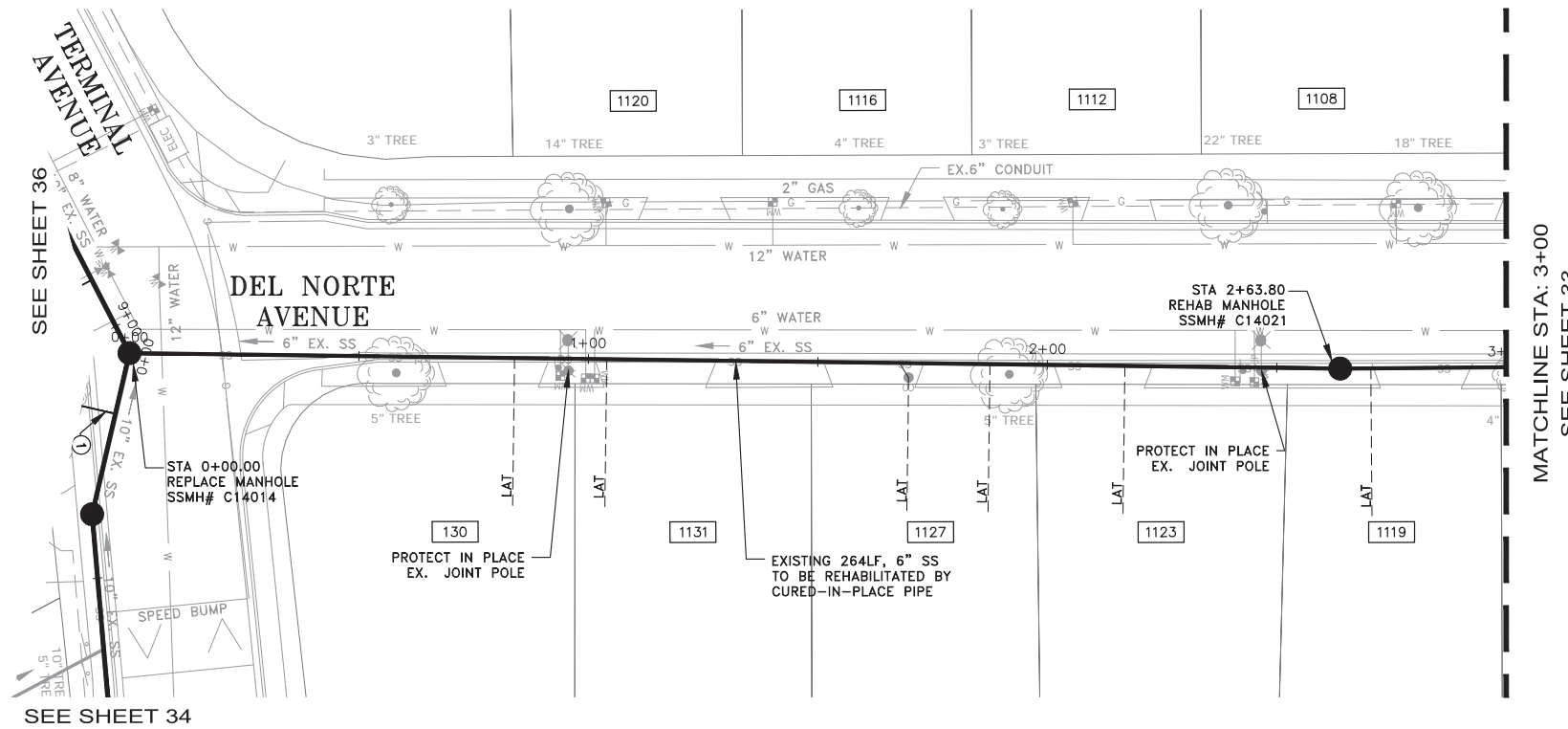
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 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



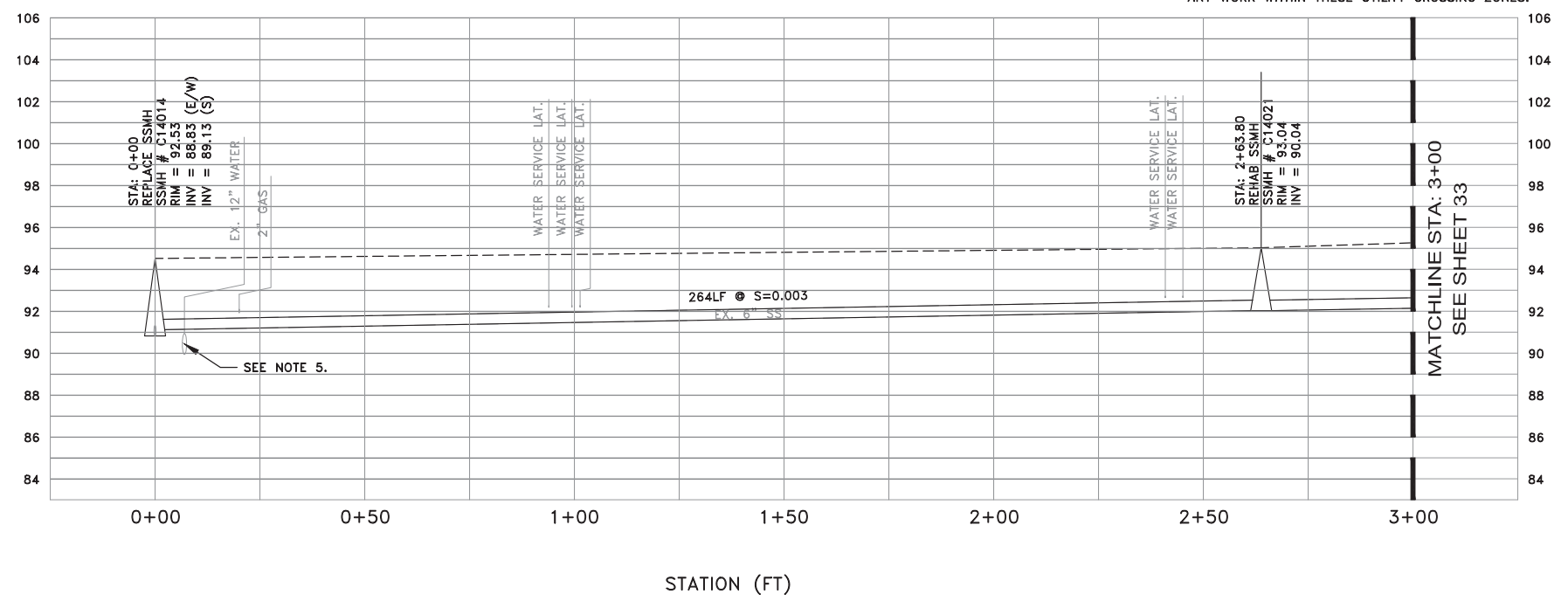
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT BETWEEN MARKET PL & PIERCE RD**  
**MENLO PARK, CALIFORNIA**

SHEET  
**31**  
 JOB NO.  
**1068**



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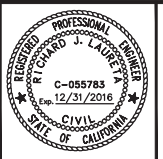


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 SANITARY DISTRICT  
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 PROJECT No. 1758.5

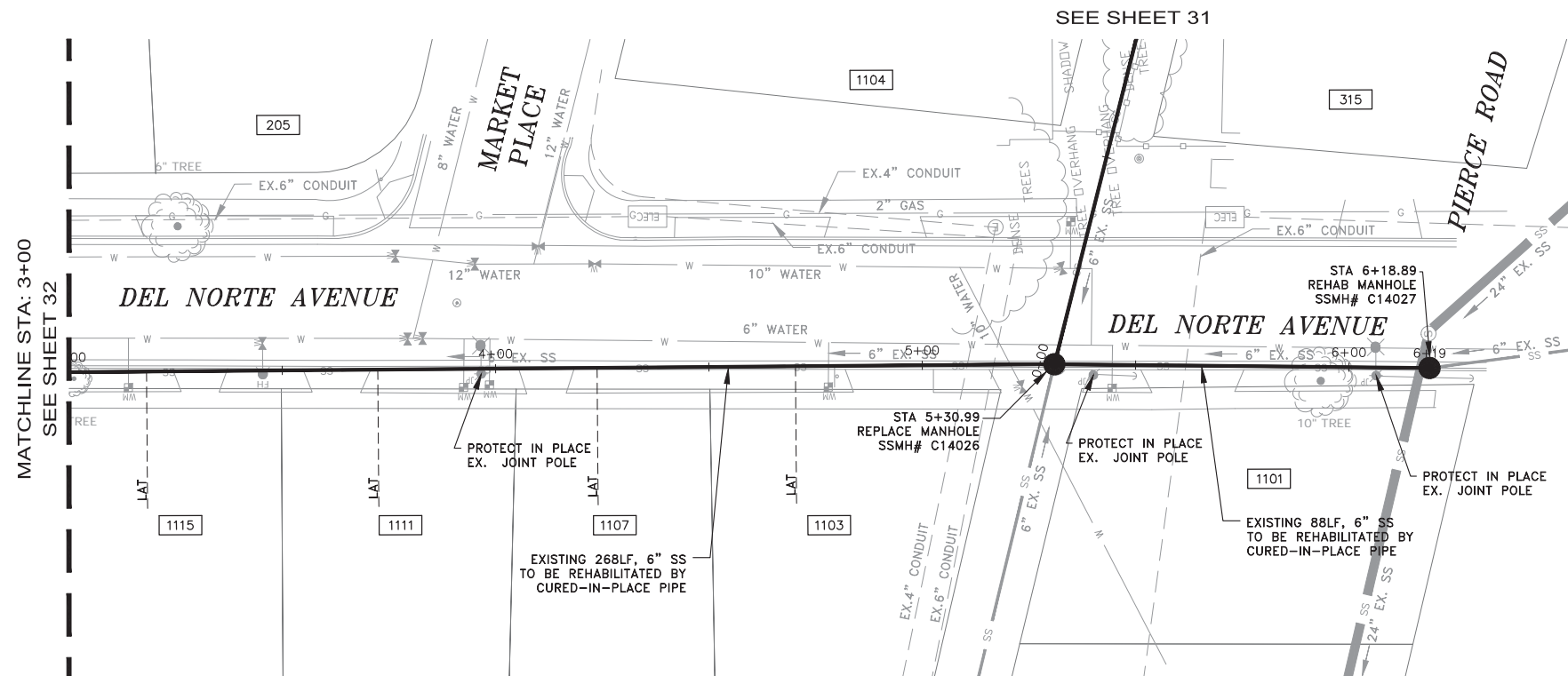


**BELLE HAVEN SEWER PROJECT PHASE II**  
 DEL NORTE AVENUE  
 MENLO PARK, CALIFORNIA

SHEET  
**32**  
 JOB NO.  
**1068**

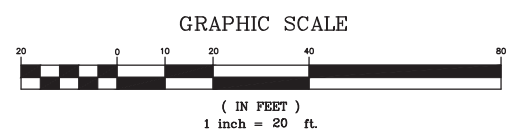
PROFILE VIEW  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'





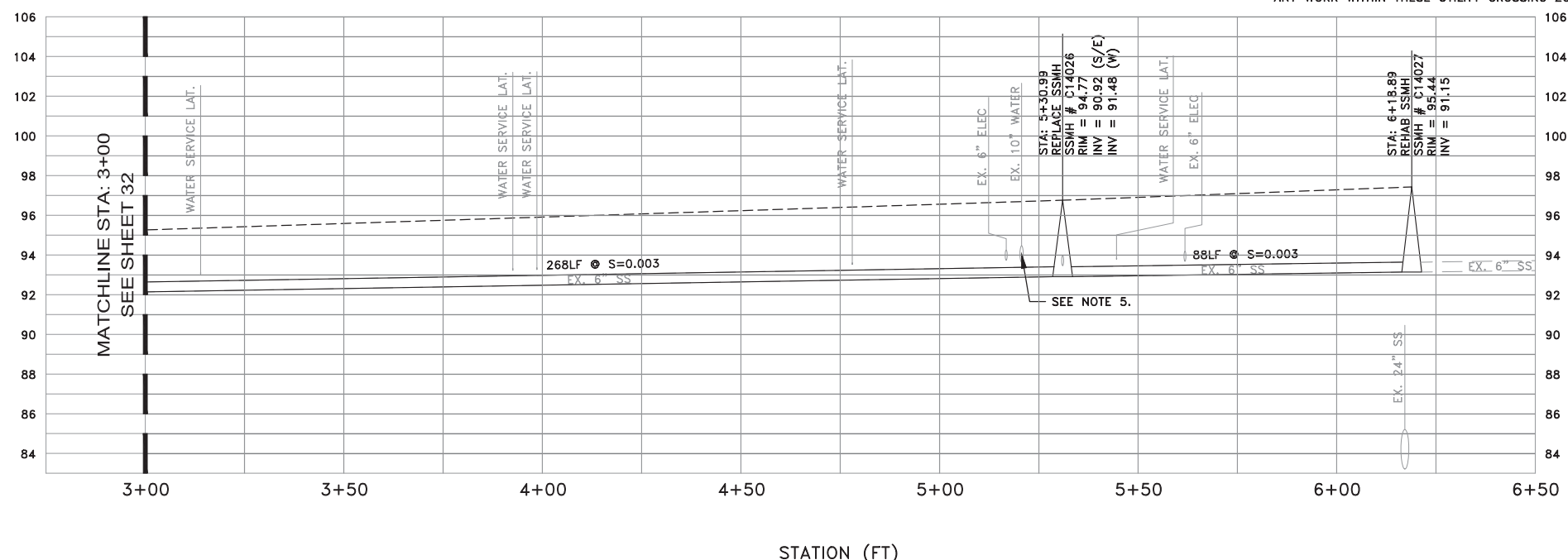
MATCHLINE STA: 3+00  
SEE SHEET 32

SEE SHEET 31



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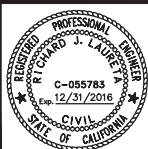
PROFILE VIEW  
HORIZ: 1" = 20'  
VERT: 1" = 4'

|             |          |                          |                         |
|-------------|----------|--------------------------|-------------------------|
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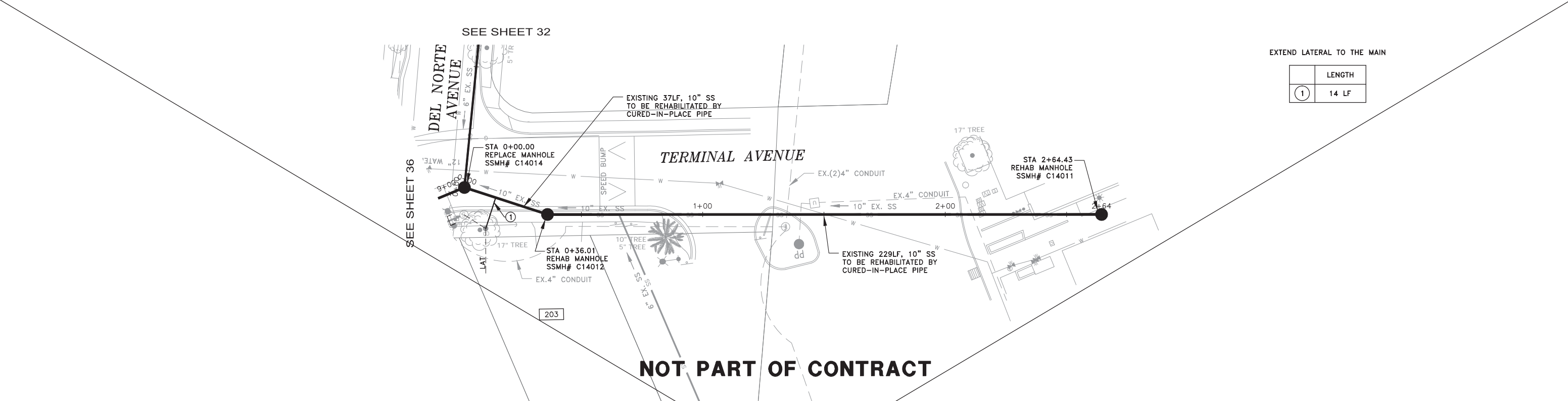
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SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
**DEL NORTE AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET  
**33**  
JOB NO.  
**1068**



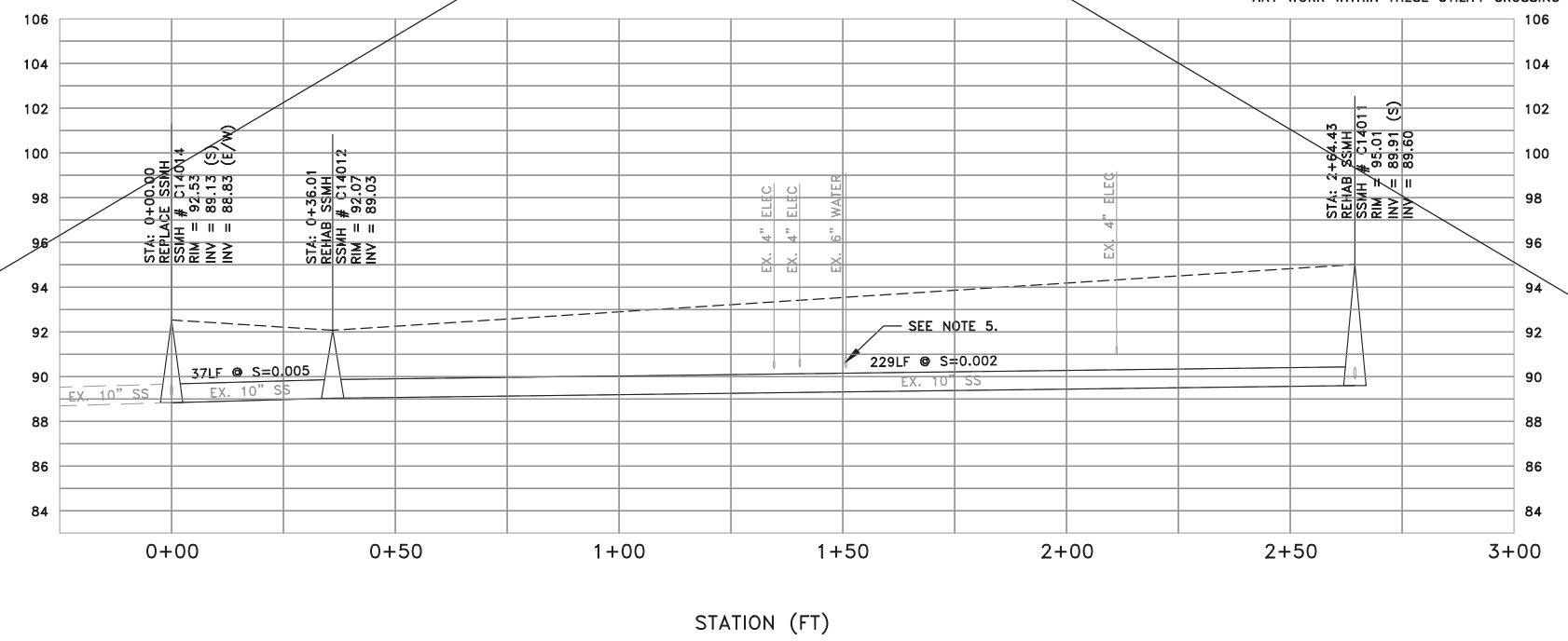
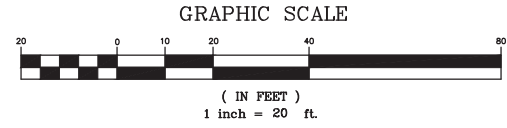
EXTEND LATERAL TO THE MAIN

|   | LENGTH |
|---|--------|
| ① | 14 LF  |

**NOT PART OF CONTRACT**

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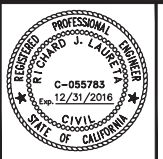
**PROFILE VIEW**  
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|             |          |                          |                         |
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| PROJ. ENGR: | RJL      |                          |                         |
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5

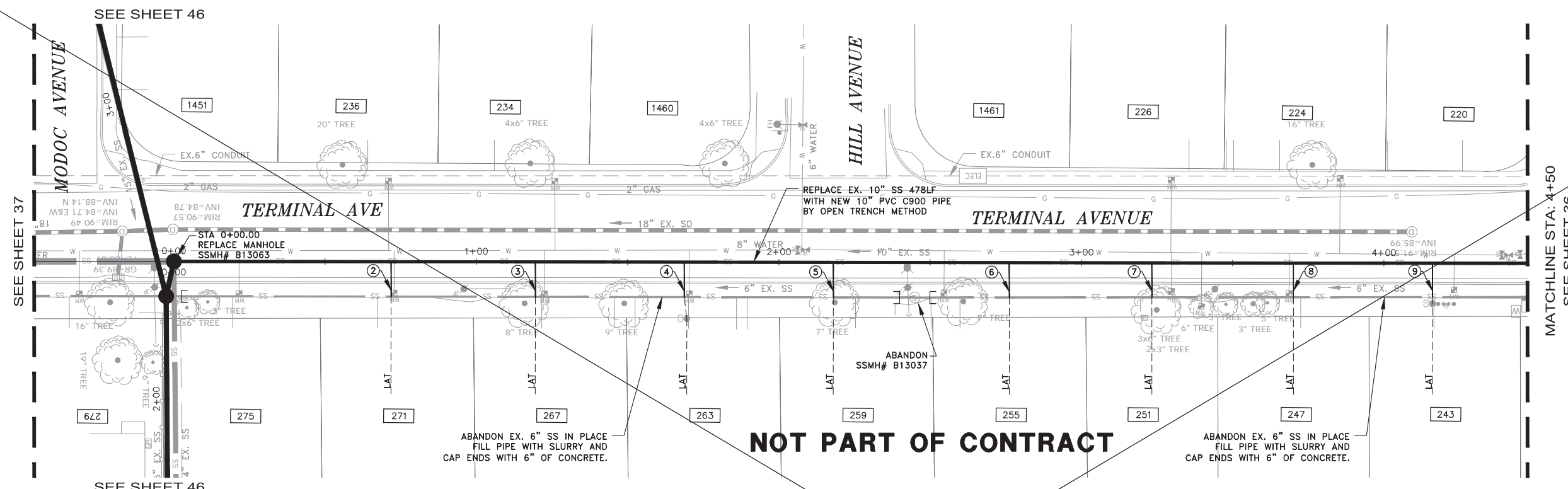


**BELLE HAVEN SEWER PROJECT PHASE II**  
 TERMINAL AVENUE  
 MENLO PARK, CALIFORNIA

|         |      |
|---------|------|
| SHEET   | 34   |
| JOB NO. | 1068 |

EXTEND LATERAL TO THE MAIN

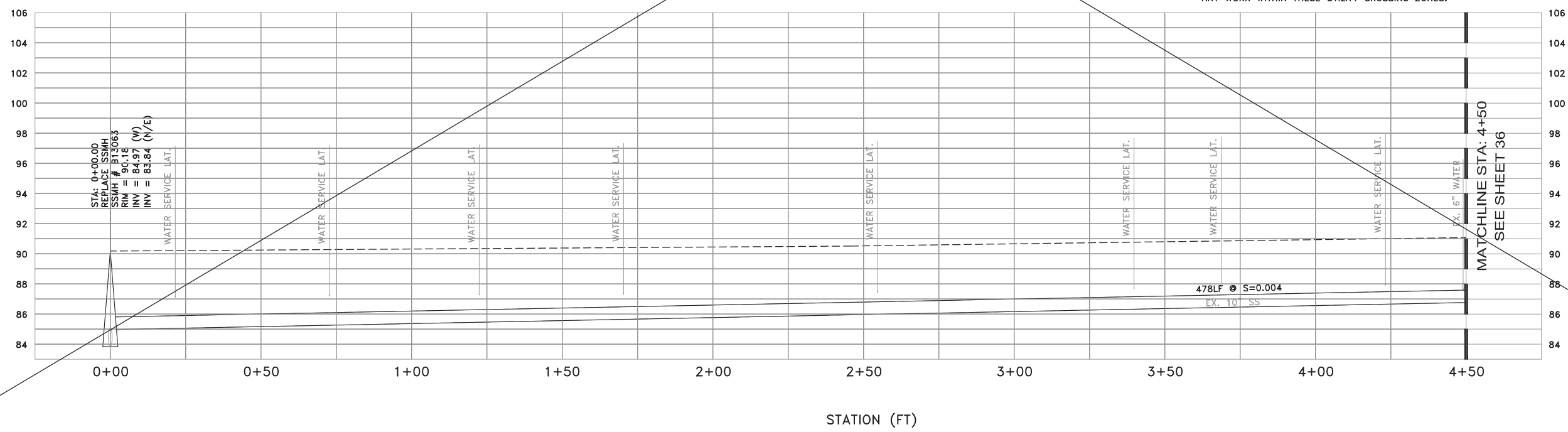
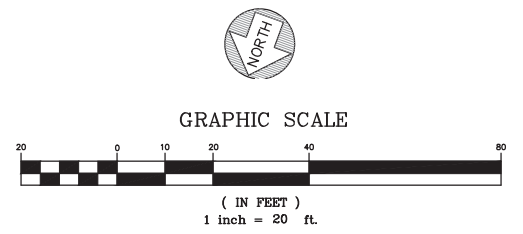
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|---|--------|
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| 3 | 12 LF  |
| 4 | 12 LF  |
| 5 | 12 LF  |
| 6 | 12 LF  |
| 7 | 12 LF  |
| 8 | 12 LF  |
| 9 | 12 LF  |



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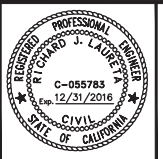
**PROFILE VIEW**  
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**WEST BAY**  
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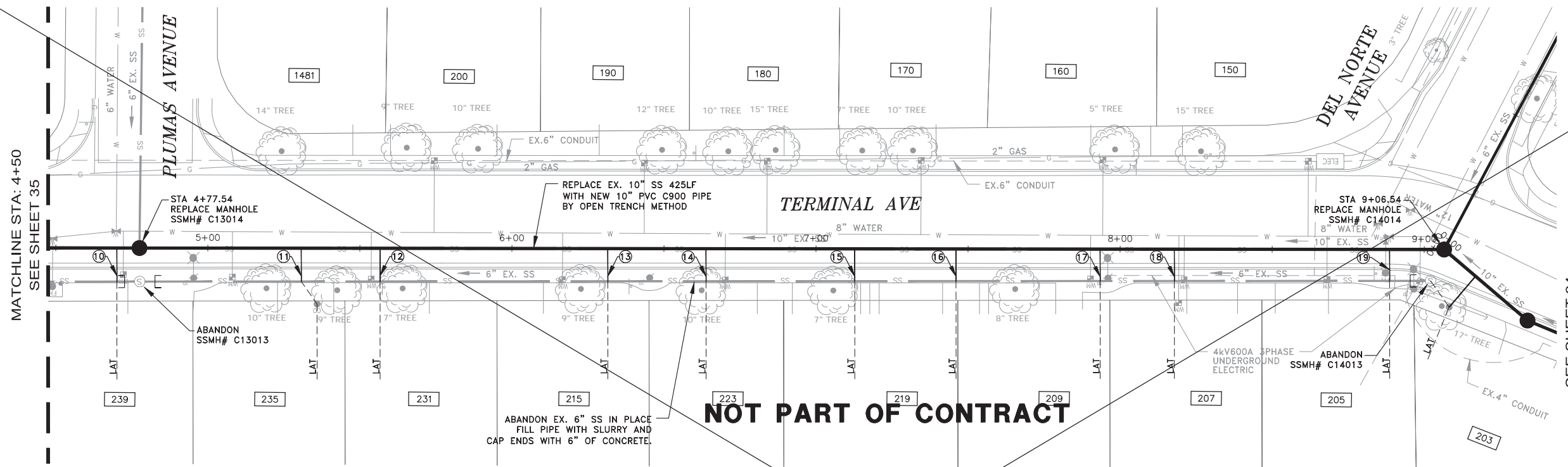
**BELLE HAVEN SEWER PROJECT PHASE II**  
**TERMINAL AVENUE**  
**MENLO PARK, CALIFORNIA**

|         |      |
|---------|------|
| SHEET   | 35   |
| JOB NO. | 1068 |

SEE SHEET 32

EXTEND LATERAL TO THE MAIN

|    | LENGTH |
|----|--------|
| 10 | 12 LF  |
| 11 | 11 LF  |
| 12 | 11 LF  |
| 13 | 11 LF  |
| 14 | 11 LF  |
| 15 | 11 LF  |
| 16 | 11 LF  |
| 17 | 11 LF  |
| 18 | 11 LF  |
| 19 | 11 LF  |



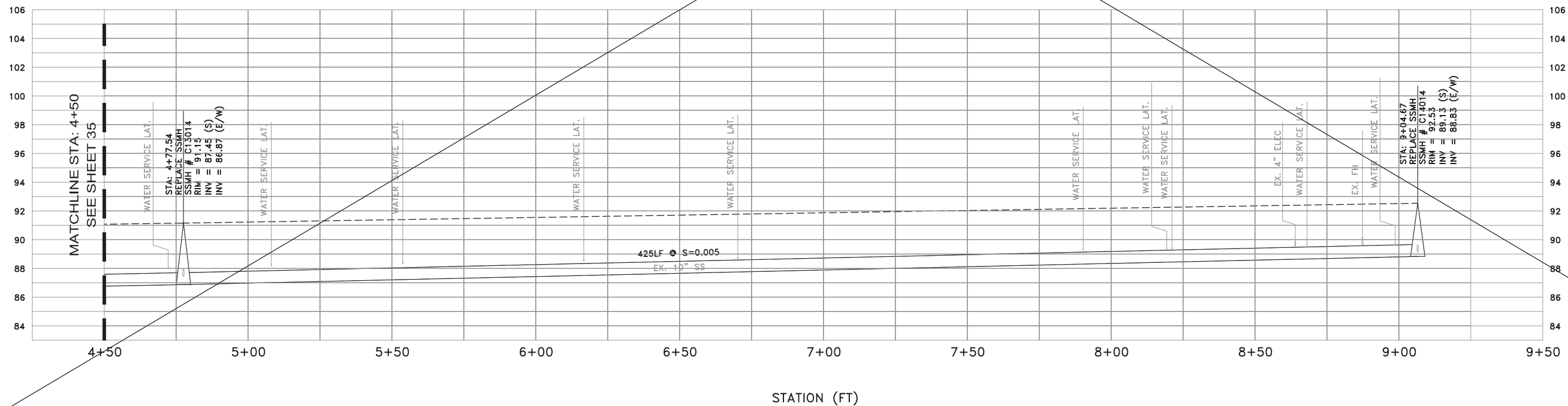
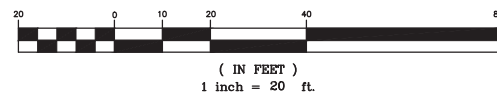
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GRAPHIC SCALE



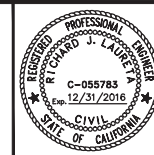
PROFILE VIEW  
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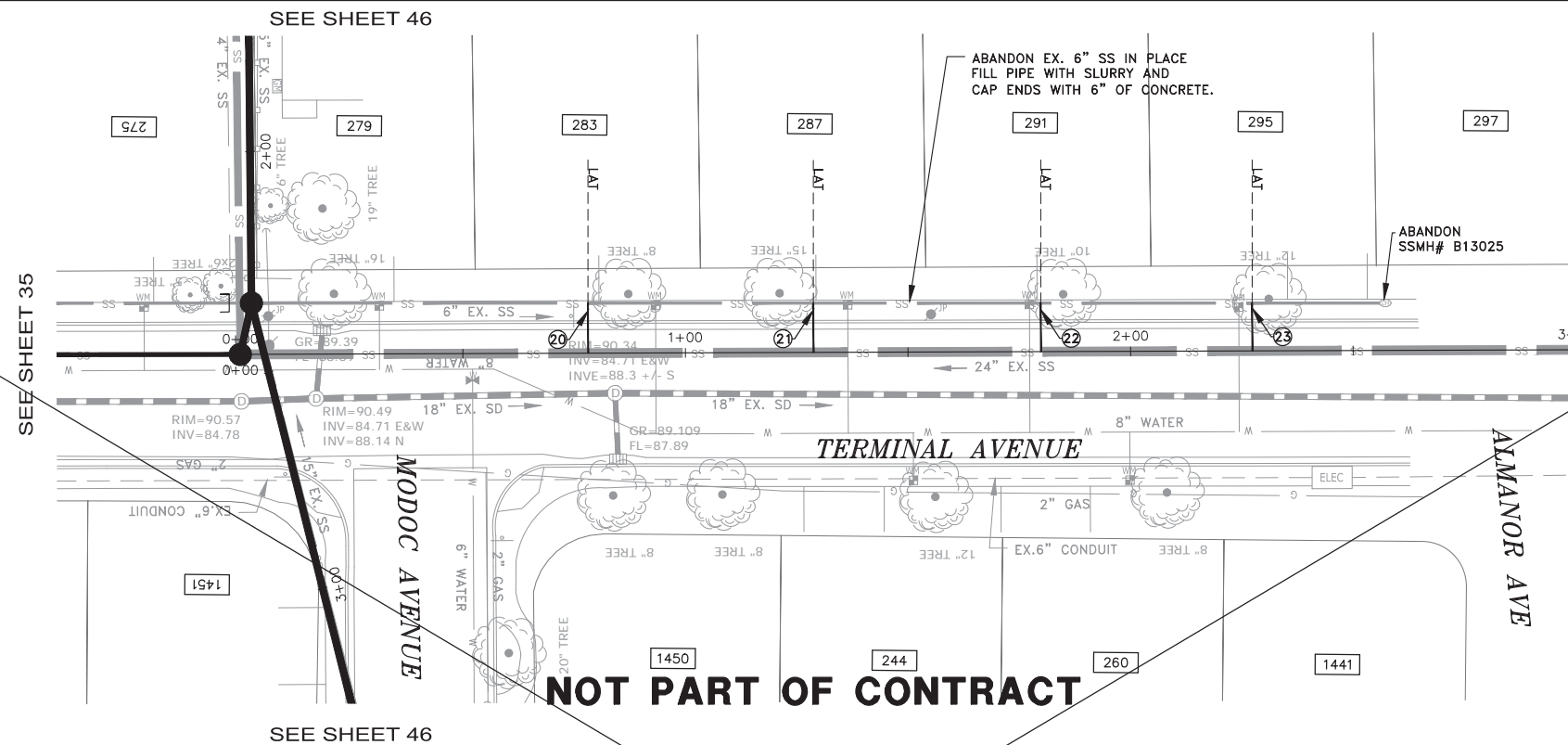
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
**TERMINAL AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET  
**36**  
 JOB NO.  
**1068**



EXTEND LATERAL TO THE MAIN

|    | LENGTH |
|----|--------|
| 20 | 12 LF  |
| 21 | 12 LF  |
| 22 | 11 LF  |
| 23 | 11 LF  |

SEE SHEET 35

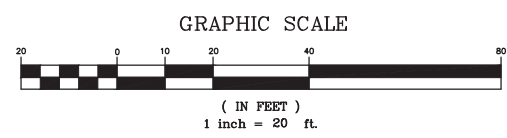
SEE SHEET 46

SEE SHEET 46

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PROFILE VIEW  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

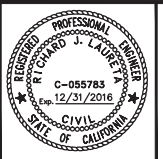
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| SCALE:      | AS NOTED | 04/26/16                 | ISSUED FOR BOARD REVIEW |
| DESIGNED:   | JJF      |                          |                         |
| DRAWN:      | PJG      |                          |                         |
| CHECKED:    | JJF      |                          |                         |
| PROJ. ENGR: | RJL      |                          |                         |
| BY          | DATE     | DESCRIPTION OF REVISIONS | APP'D                   |

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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

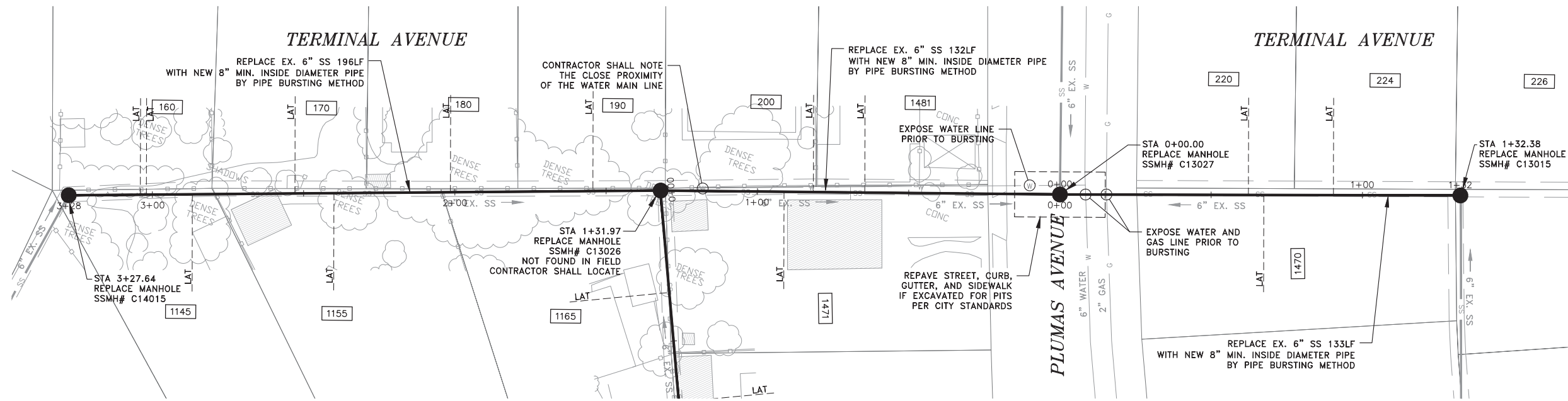
PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
 TERMINAL AVENUE  
 MENLO PARK, CALIFORNIA

SHEET  
**37**

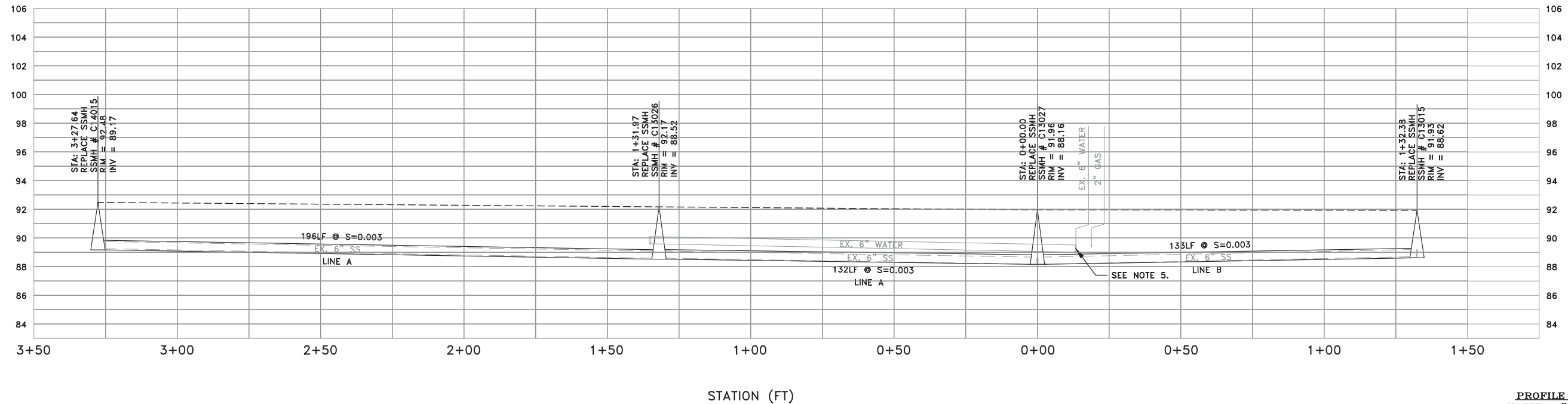
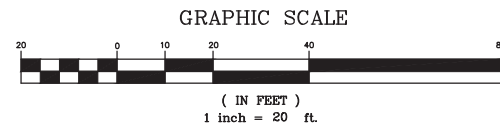
JOB NO.  
**1068**



SEE SHEET 39

NOTES:

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PROFILE VIEW  
HORIZ: 1" = 20'  
VERT: 1" = 4'

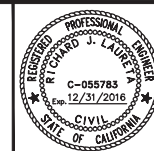
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1758.5



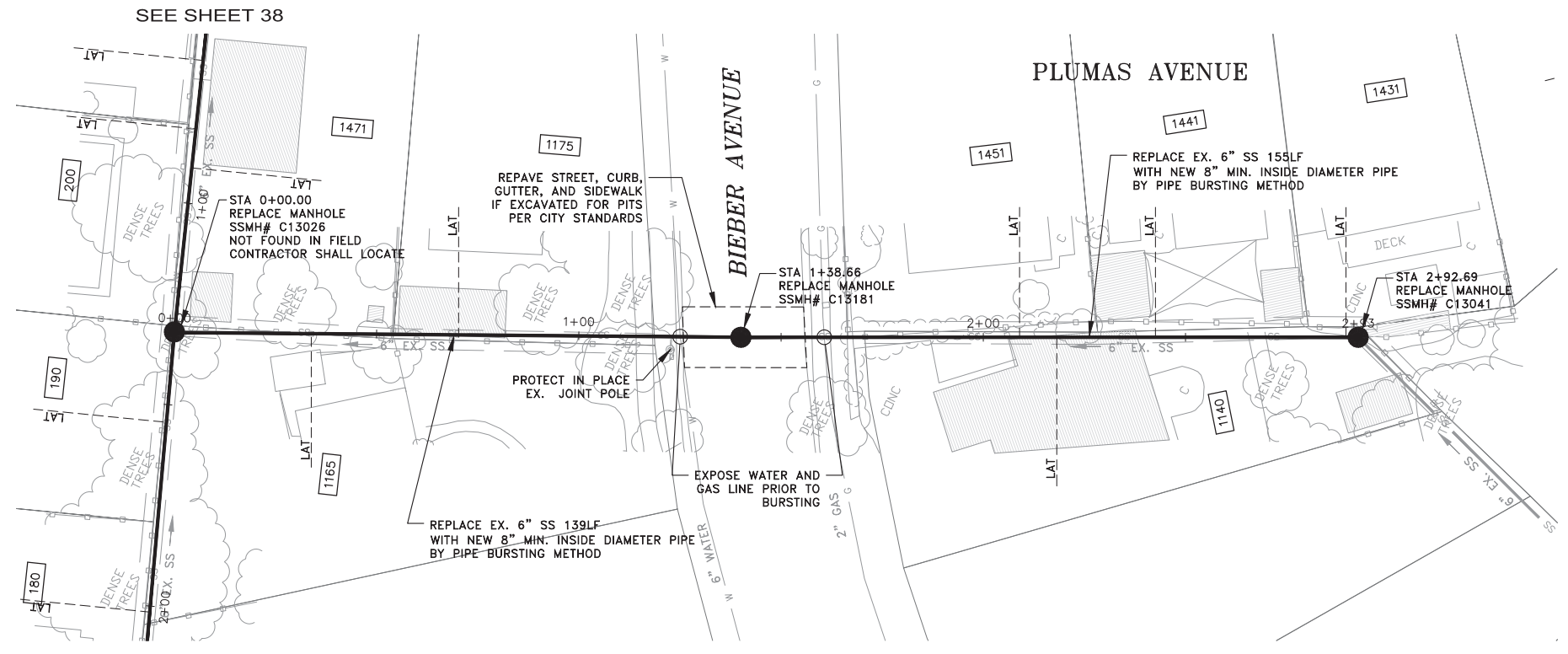
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT ON TERMINAL AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET

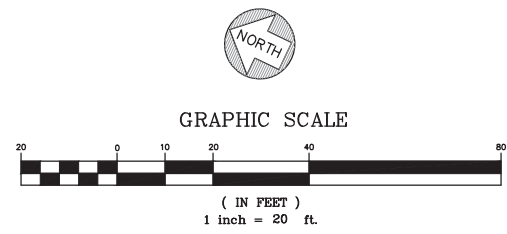
38

JOB NO.

1068

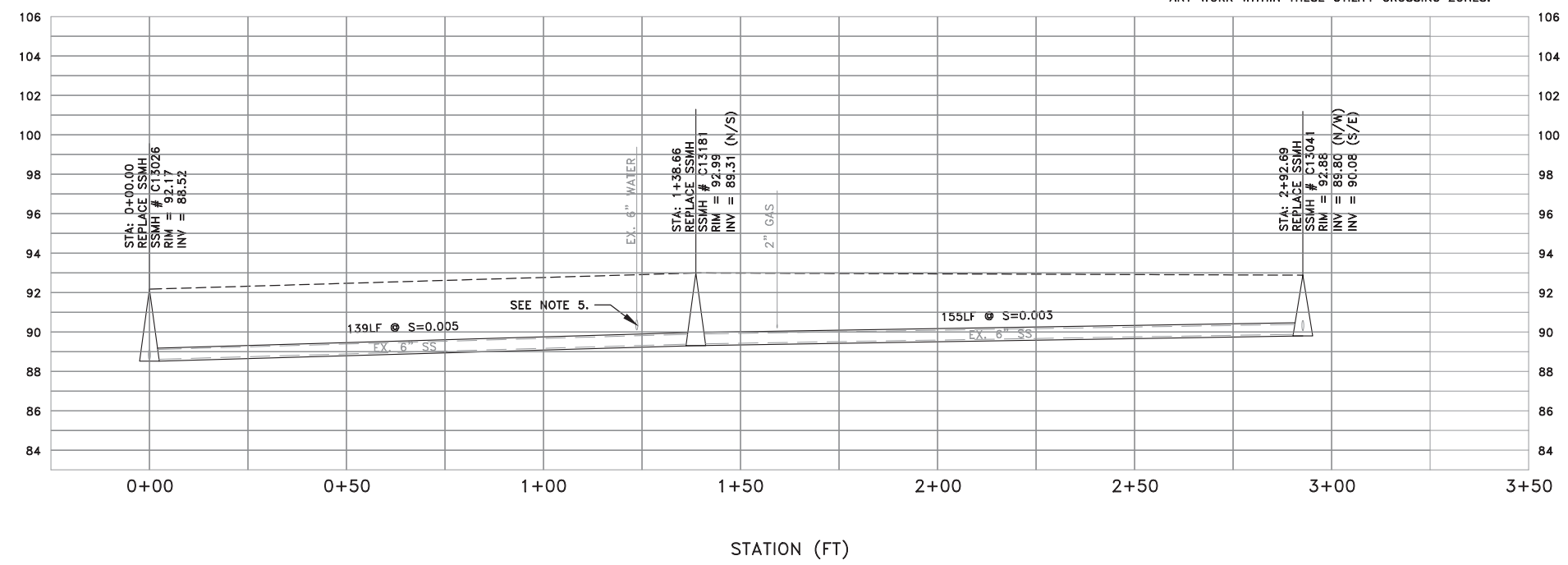


SEE SHEET 38



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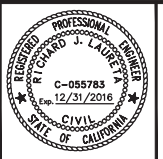
PROFILE VIEW  
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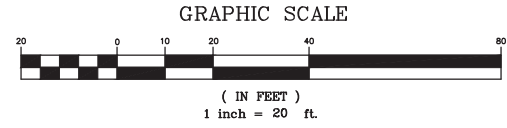
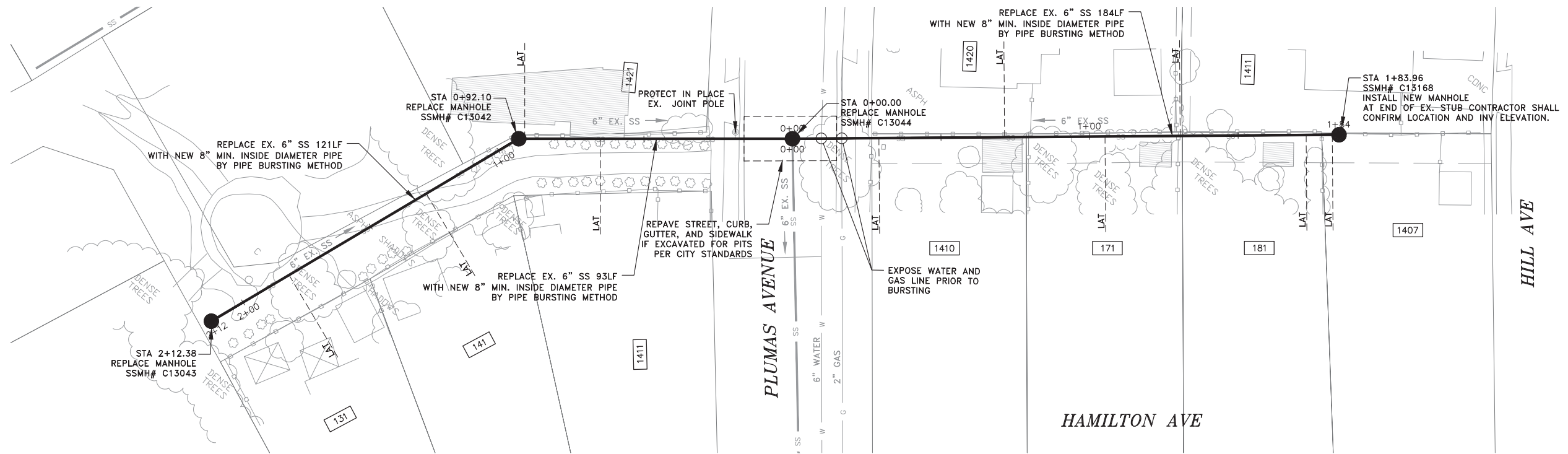
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



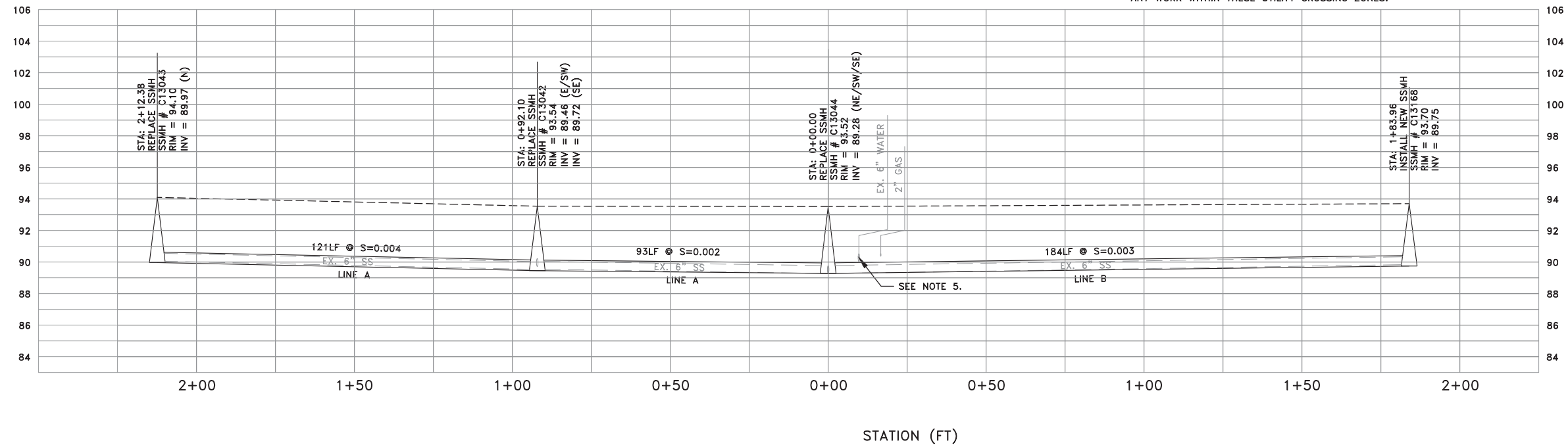
**BELLE HAVEN SEWER PROJECT PHASE II**  
 EASEMENT ON BIEBER AVENUE  
 MENLO PARK, CALIFORNIA

SHEET  
**39**  
 JOB NO.  
**1068**



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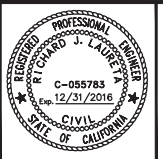
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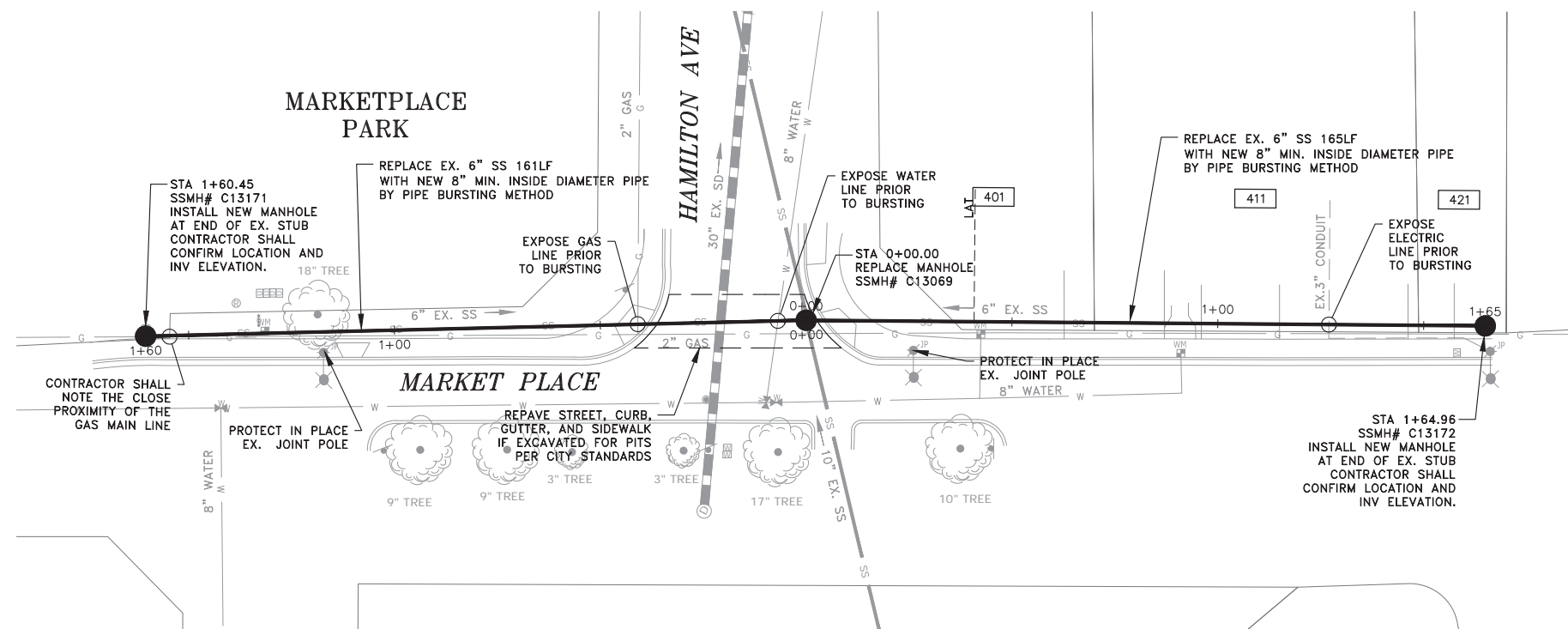
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT ON PLUMAS AVENUE**  
**MENLO PARK, CALIFORNIA**

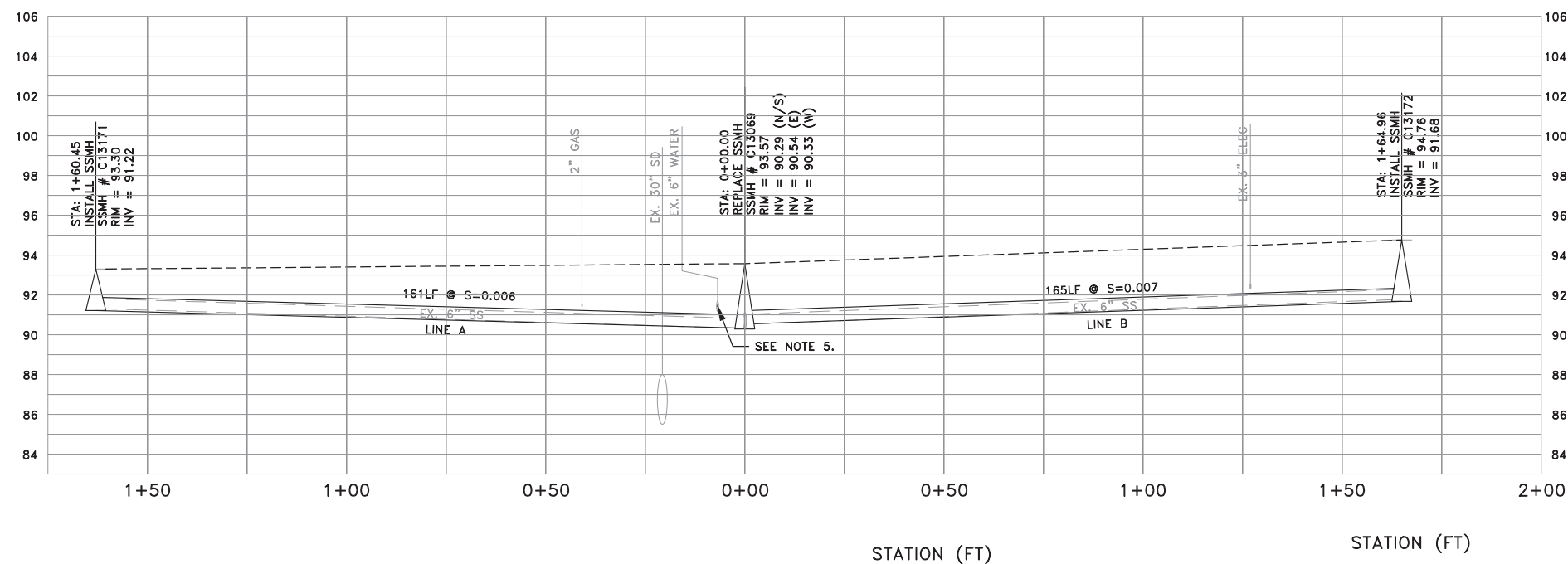
SHEET  
40  
JOB NO.  
1068





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**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

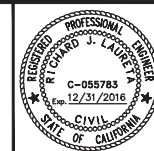
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| DRAWN:      | PJG      |                          |                         |
| CHECKED:    | JJF      |                          |                         |
| PROJ. ENGR: | RJL      |                          |                         |
| BY          | DATE     | DESCRIPTION OF REVISIONS | APP'D                   |

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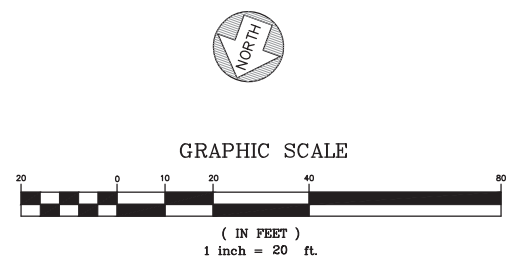
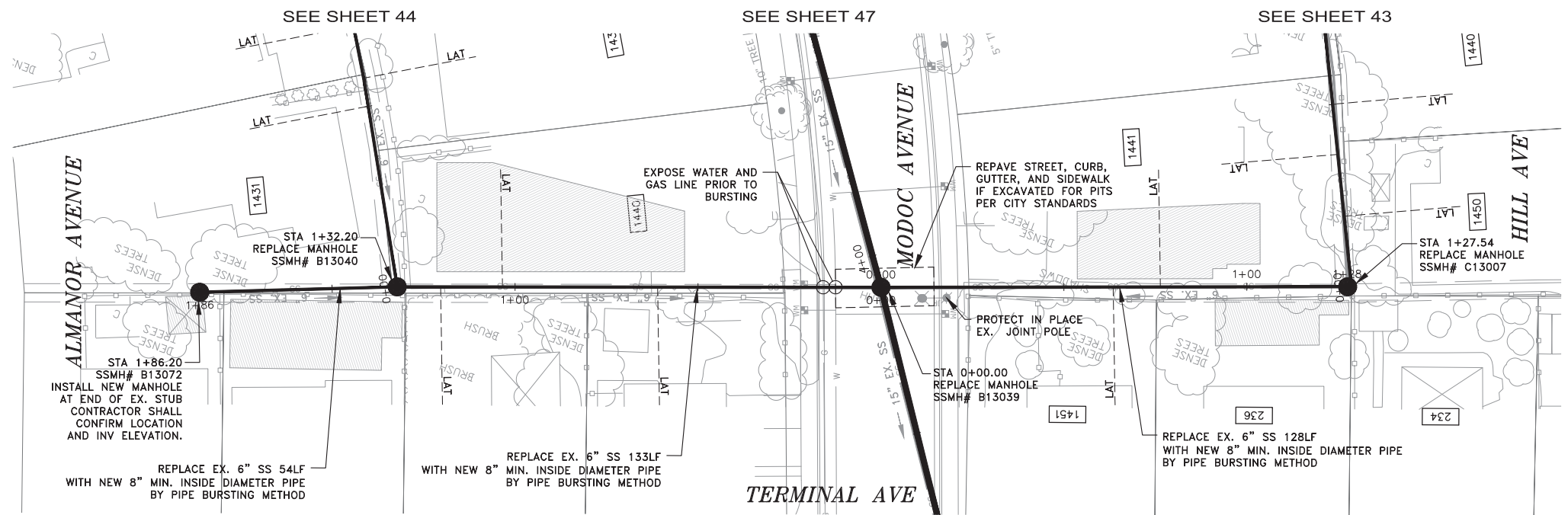
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1758.5



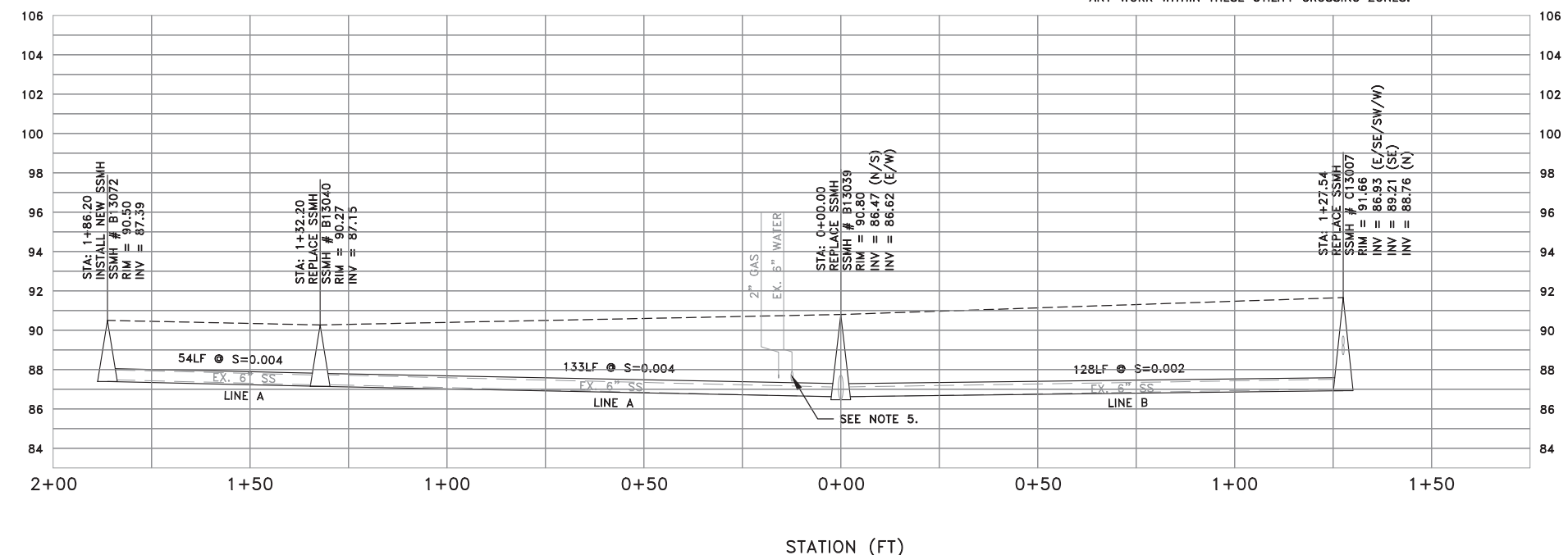
**BELLE HAVEN SEWER PROJECT PHASE II**  
**MARKET PLACE**  
**MENLO PARK, CALIFORNIA**

SHEET  
**41**  
 JOB NO.  
**1068**



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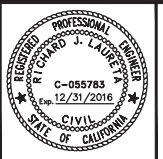
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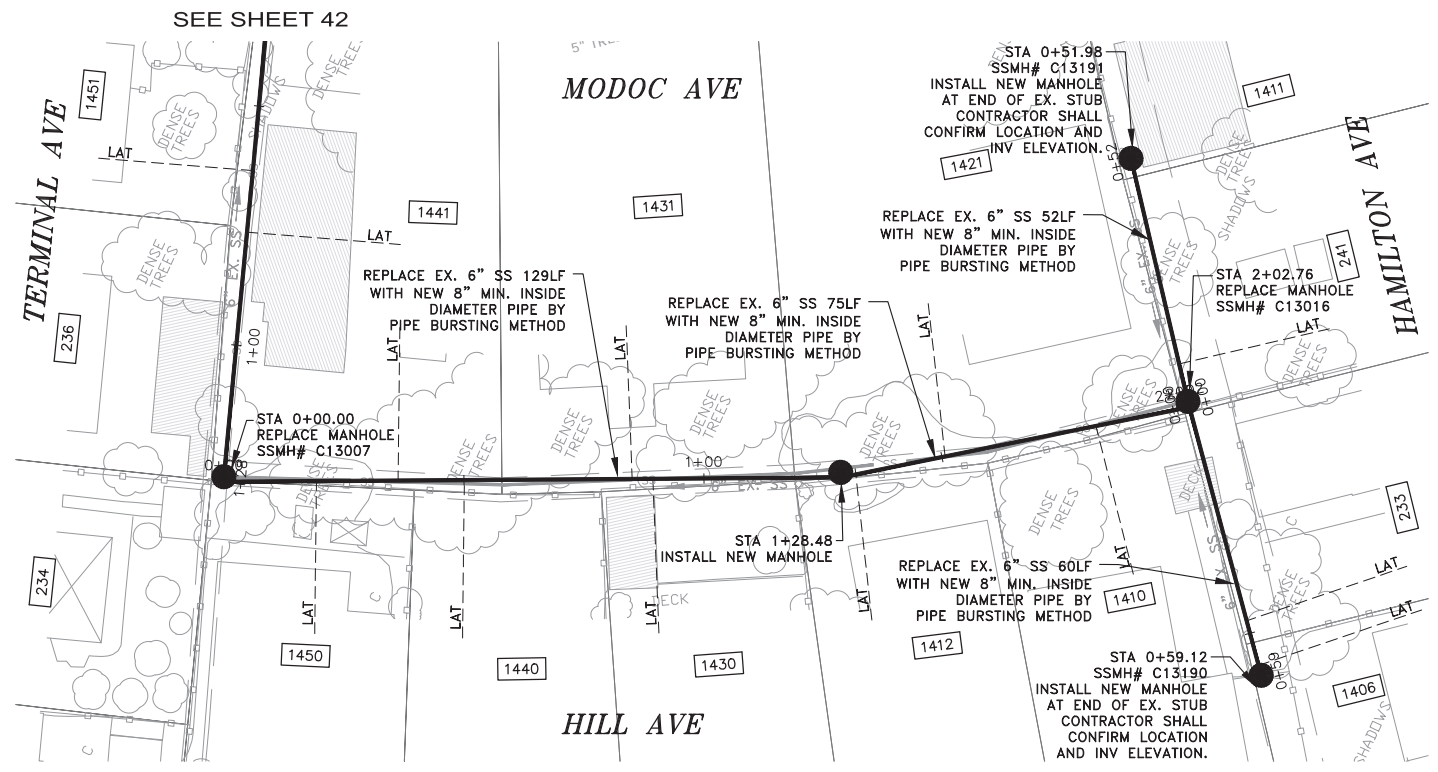
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



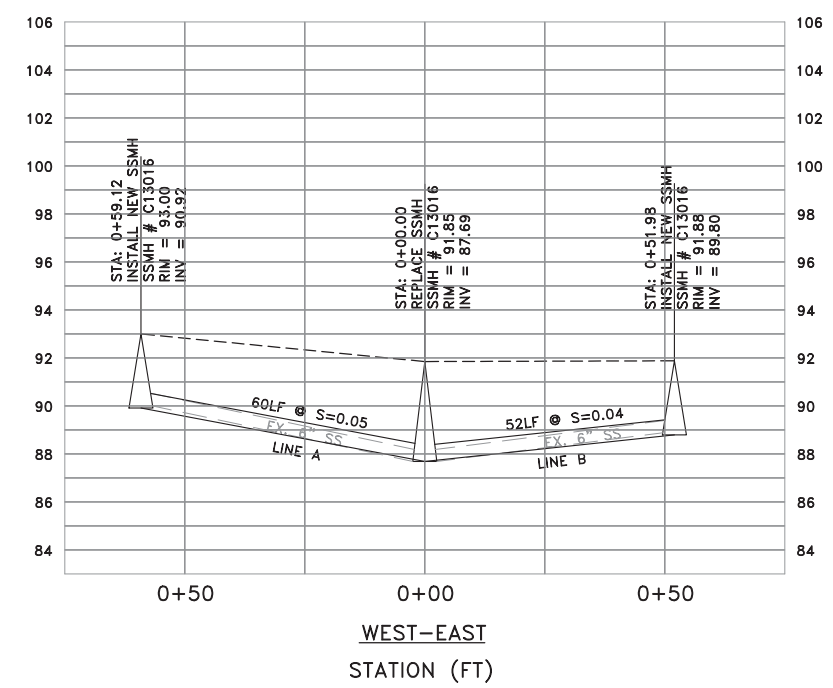
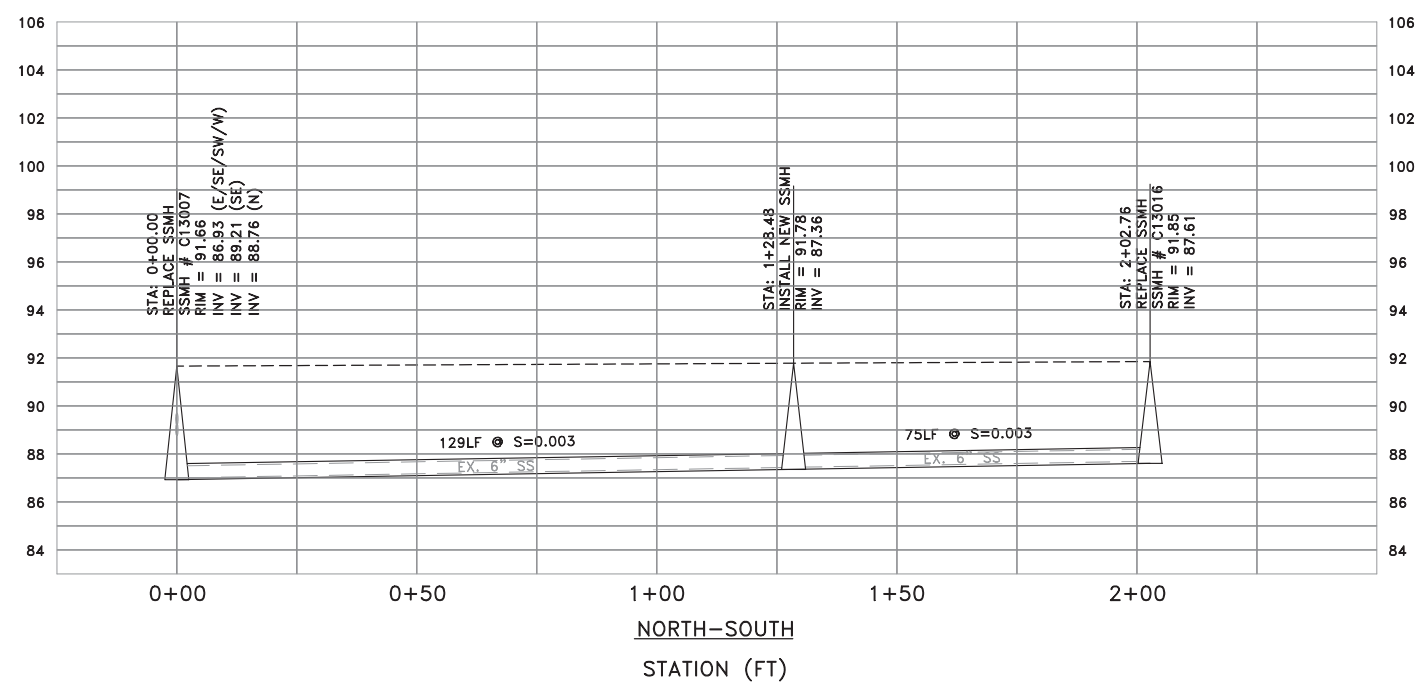
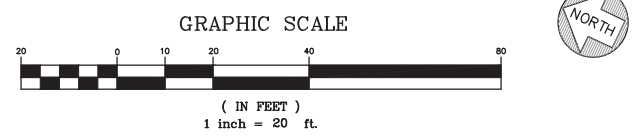
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT ON TERMINAL AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET  
 42  
 JOB NO.  
 1068



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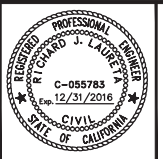
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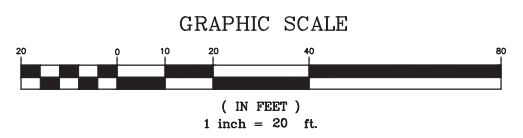
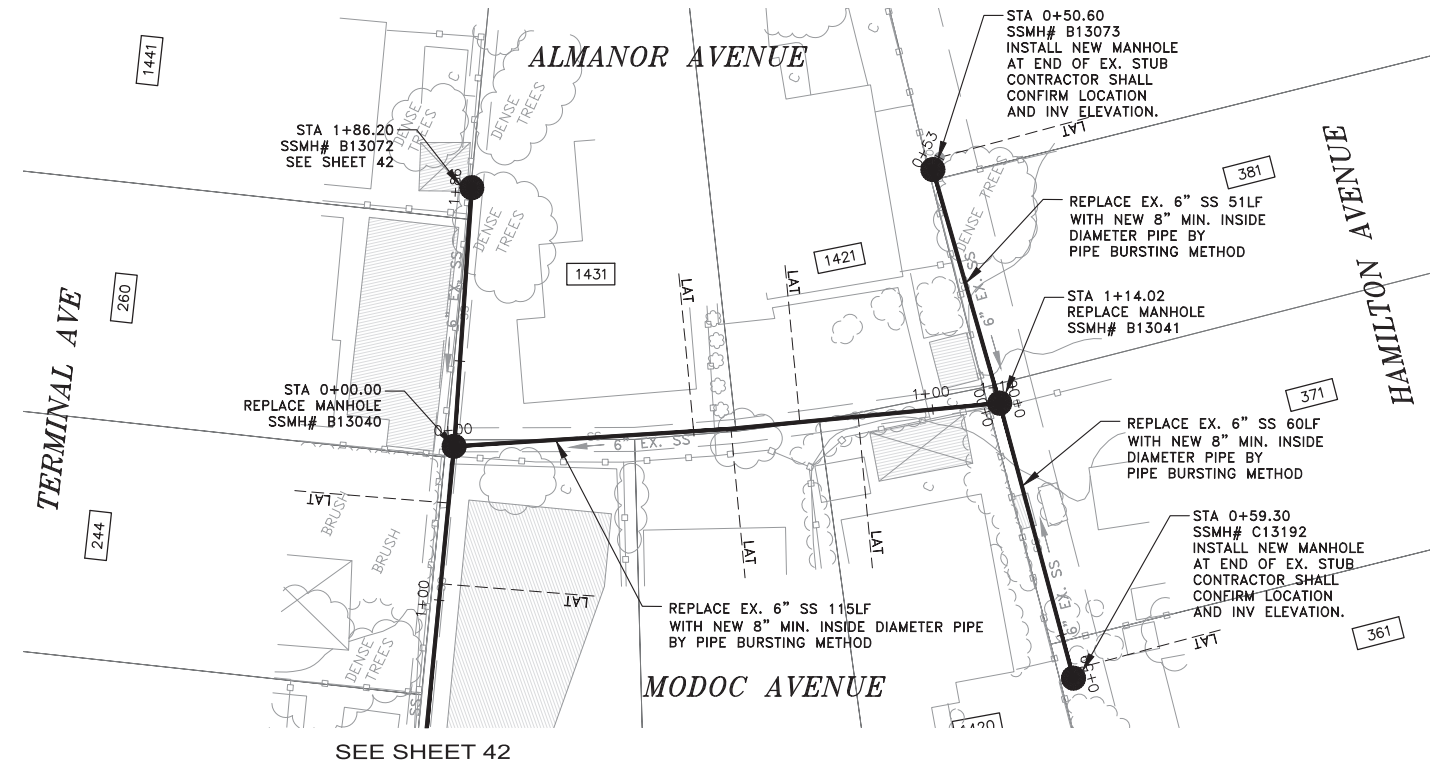
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.5



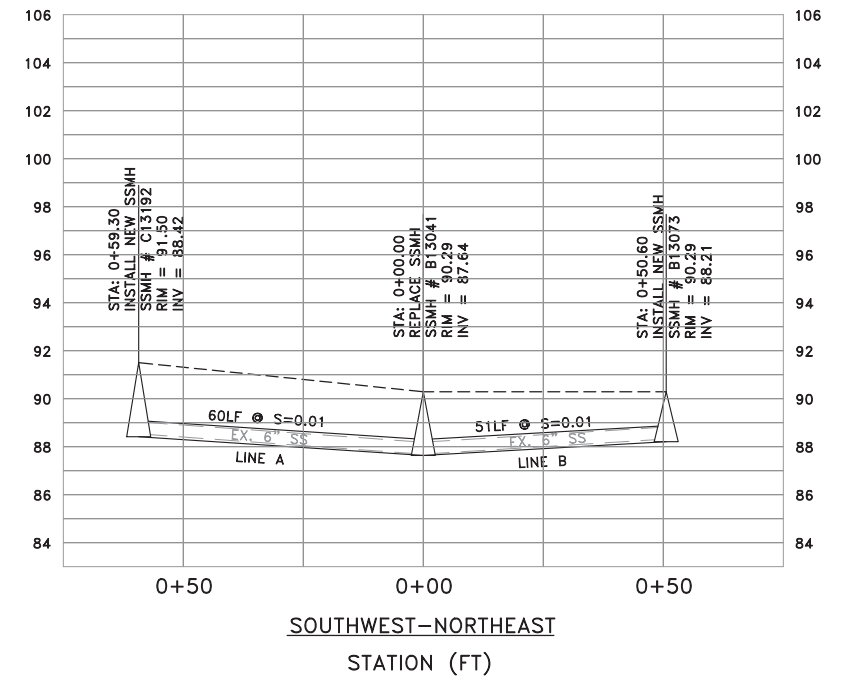
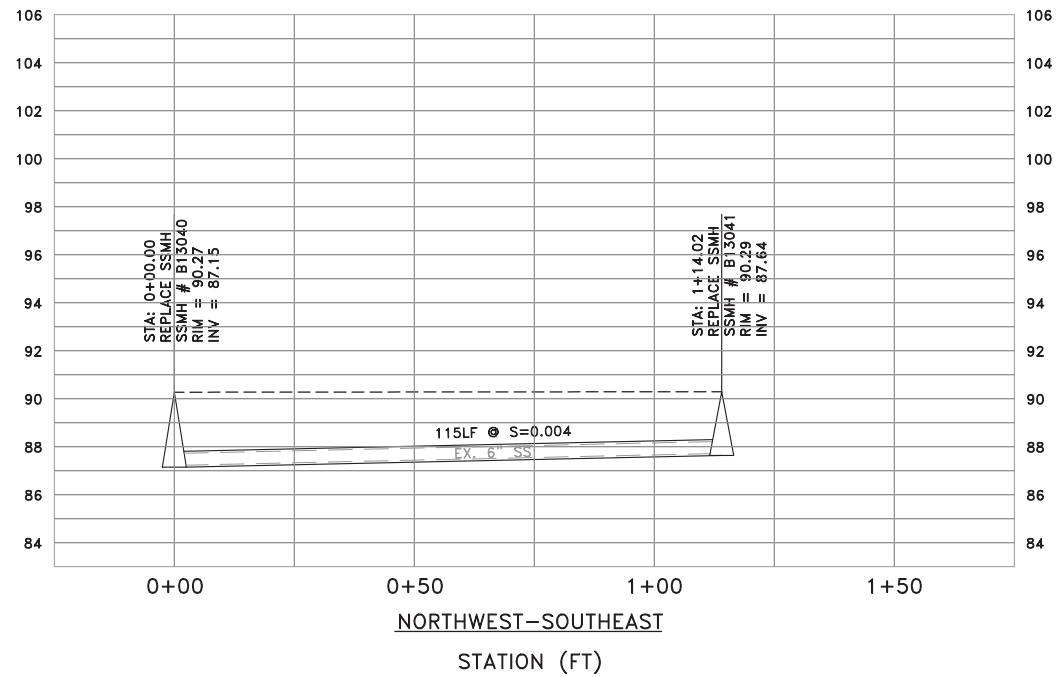
**BELLE HAVEN SEWER PROJECT PHASE II**  
 EASEMENT ON TERMINAL AVENUE  
 MENLO PARK, CALIFORNIA

SHEET  
 43  
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PROFILE VIEW  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

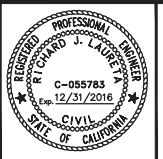
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| DESIGNED:   | JJF      |                          |                         |
| DRAWN:      | PJG      |                          |                         |
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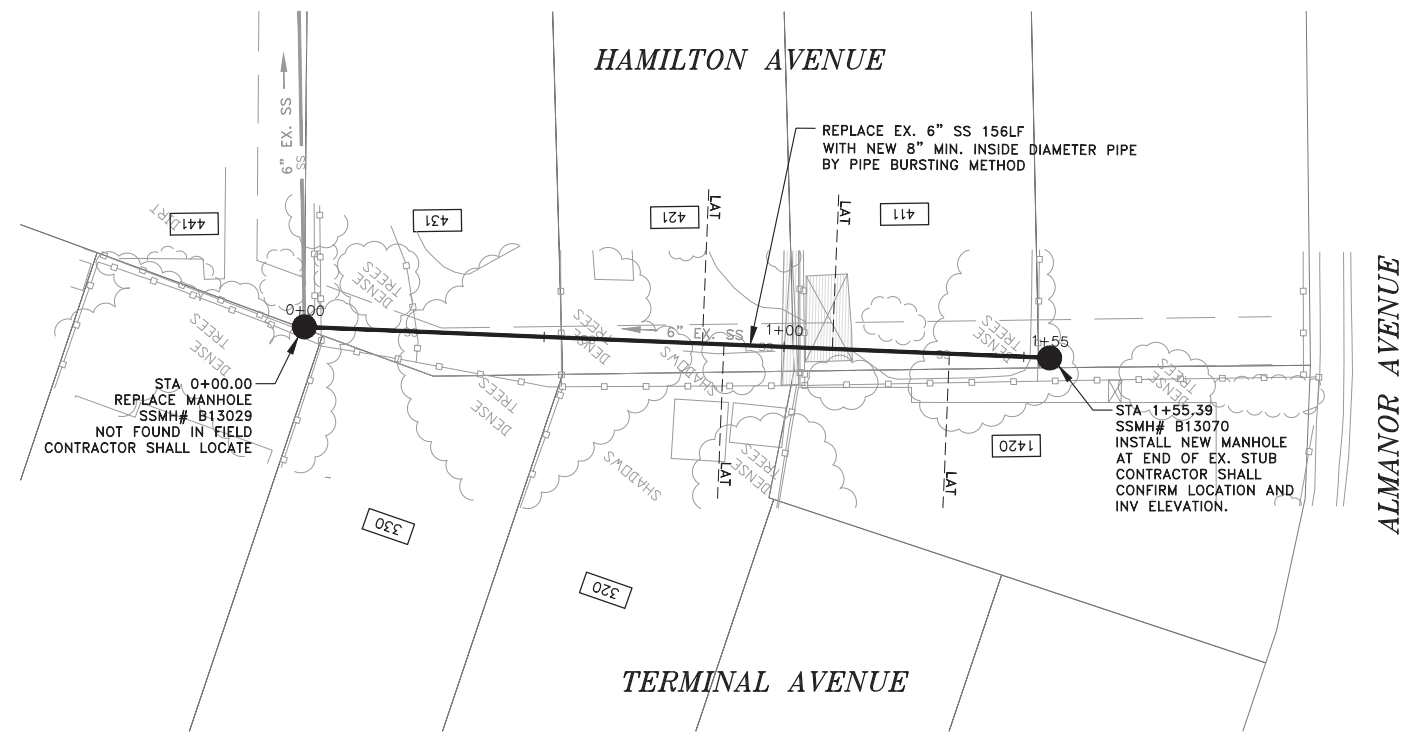
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1758.5



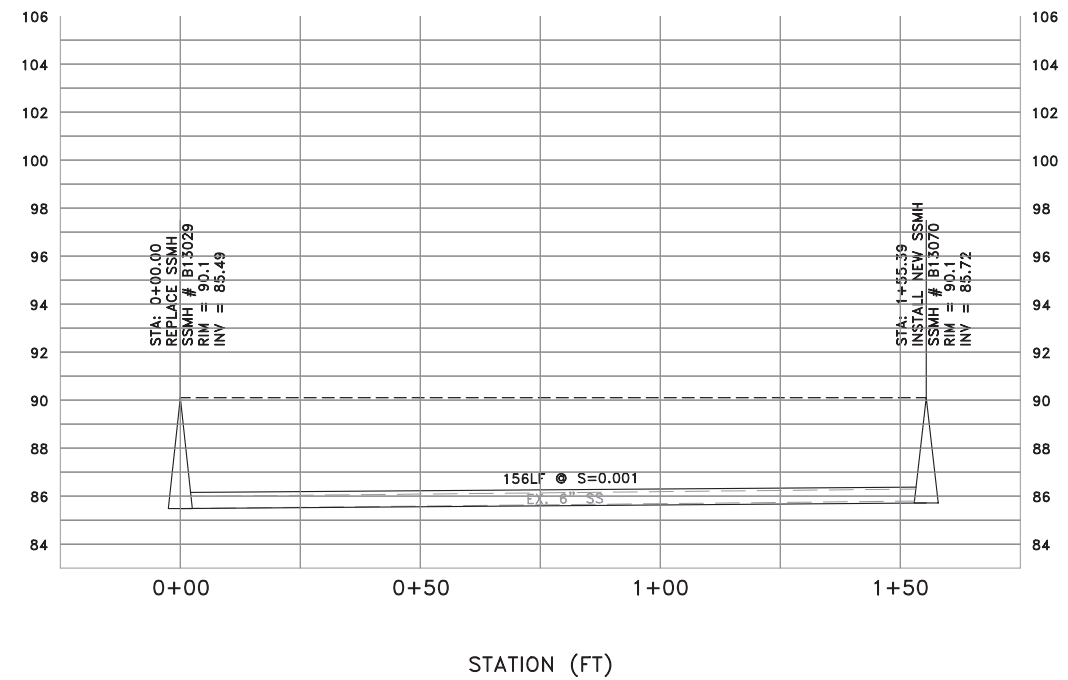
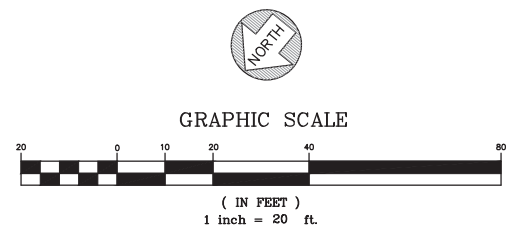
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT ON MODOC AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET  
 44  
 JOB NO.  
 1068



NOTES:

- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 2) CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL NOTE THE CLOSE PROXIMITY OF UTILITIES TO PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY U.S.A. TO LOCATE UTILITIES AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION.
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PROFILE VIEW  
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VERT: 1" = 4'

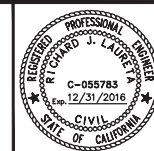
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1758.5



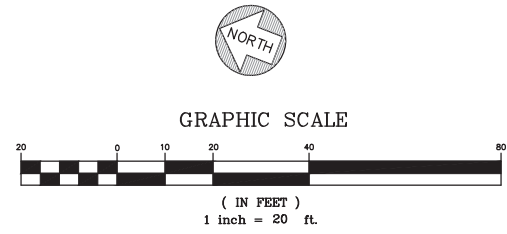
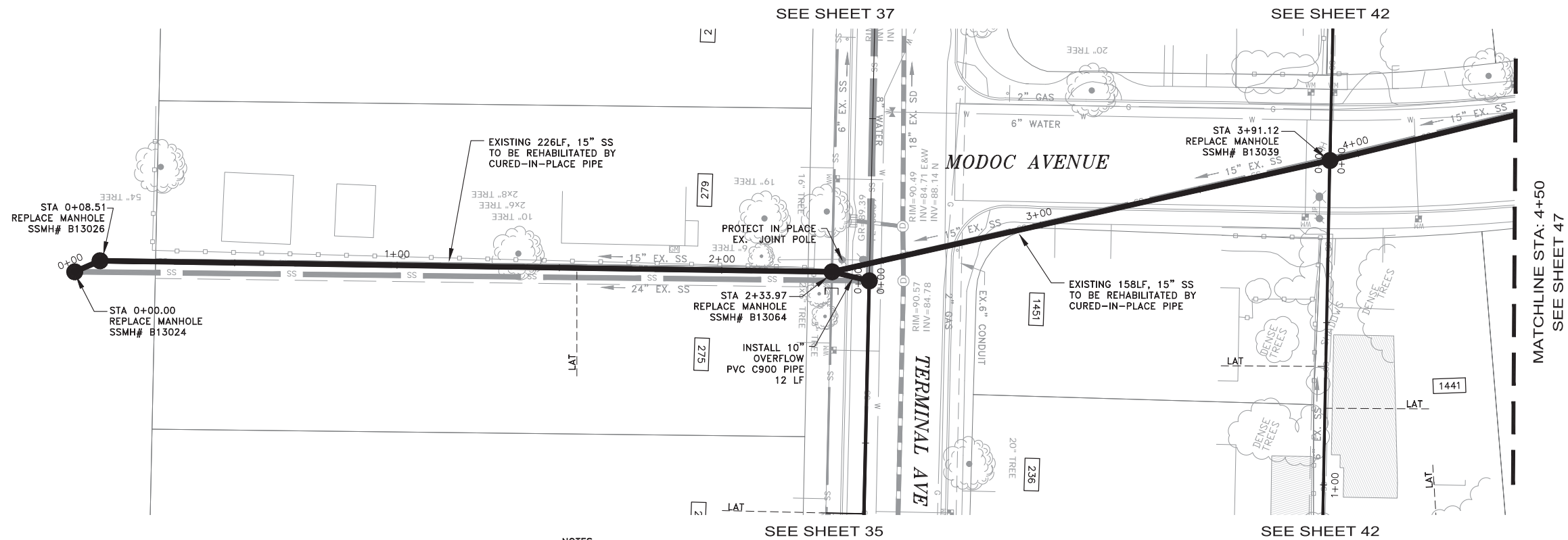
**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT ON MODOC AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET

45

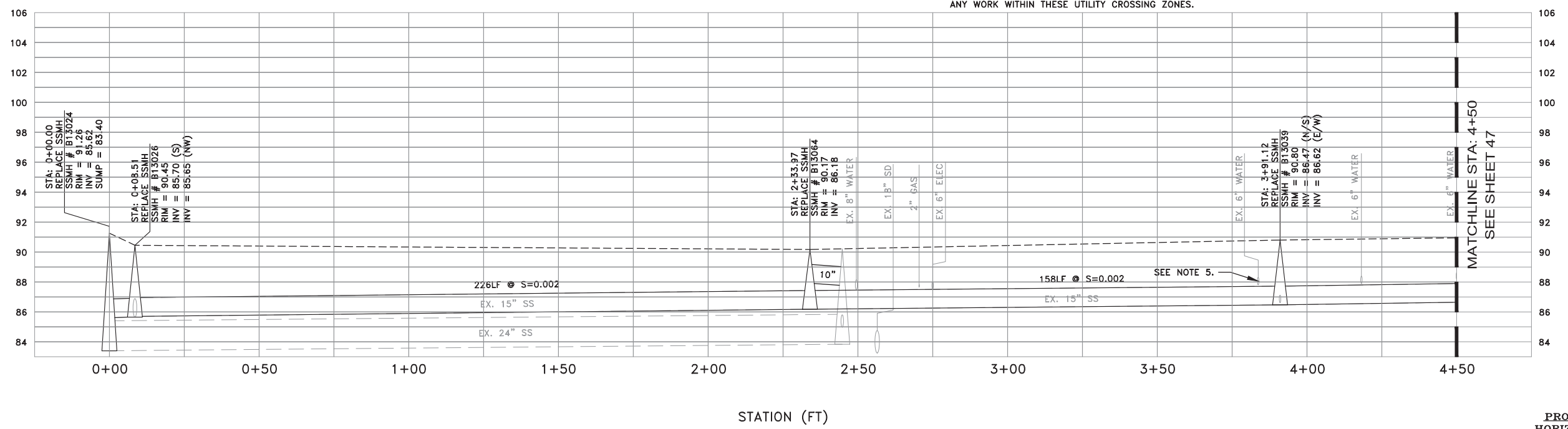
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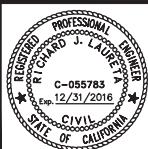
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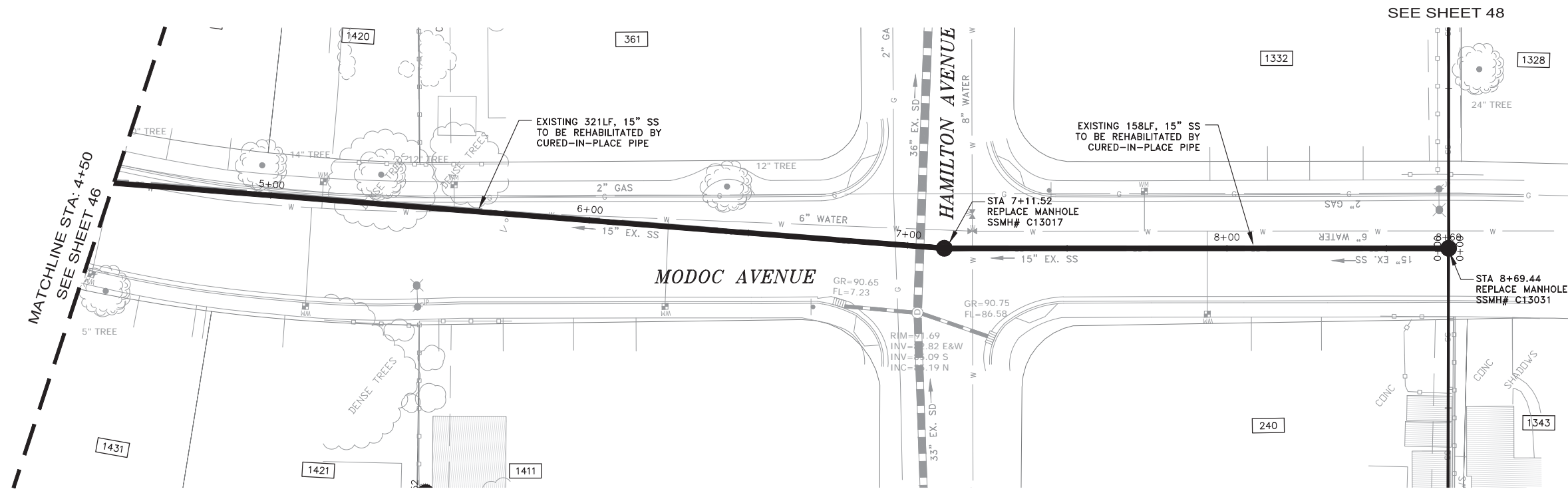
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
**EASEMENT ON TERMINAL AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET  
**46**  
JOB NO.  
**1068**

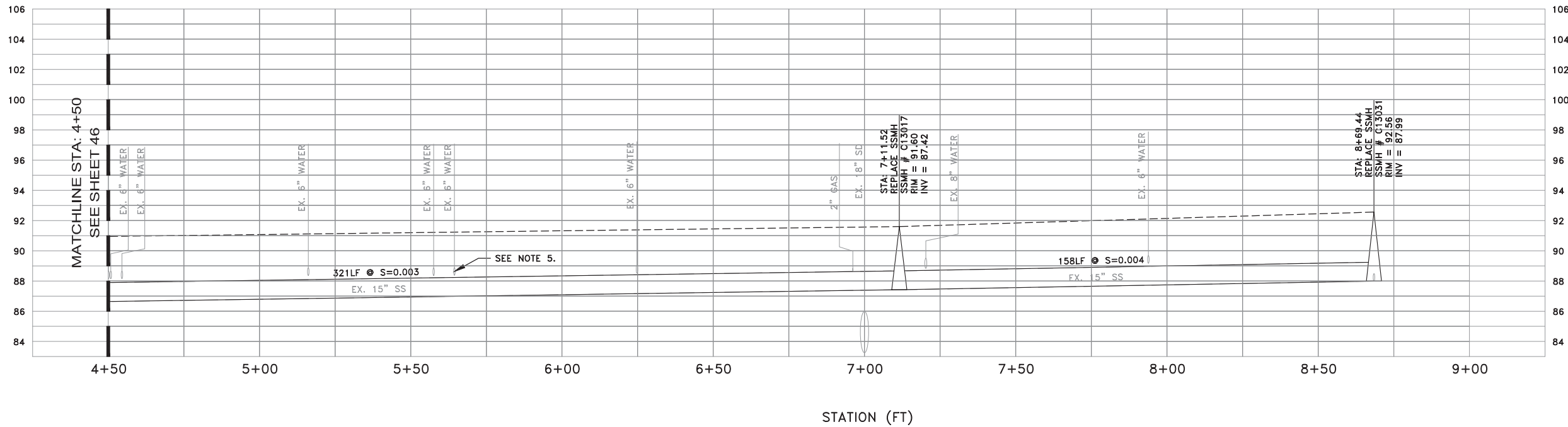
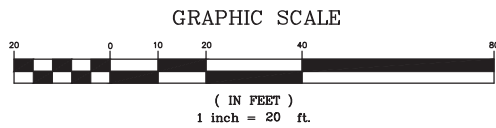


SEE SHEET 48

SEE SHEET 48

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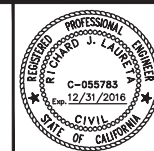
PROFILE VIEW  
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

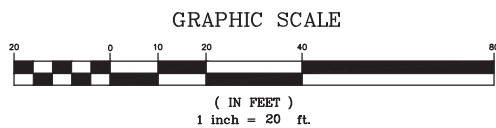
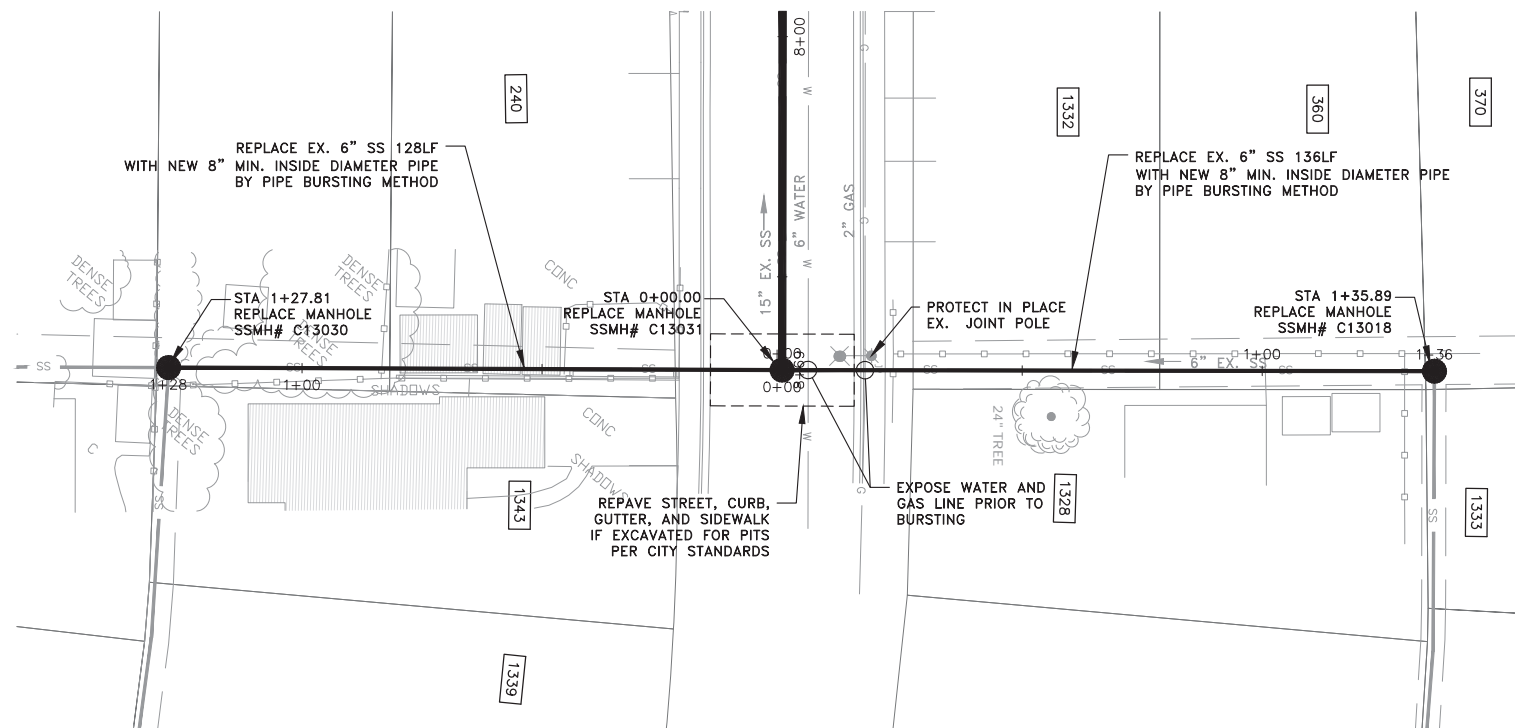


PROJECT No. 1758.5

**BELLE HAVEN SEWER PROJECT PHASE II**  
**MODOC AVENUE**  
**MENLO PARK, CALIFORNIA**

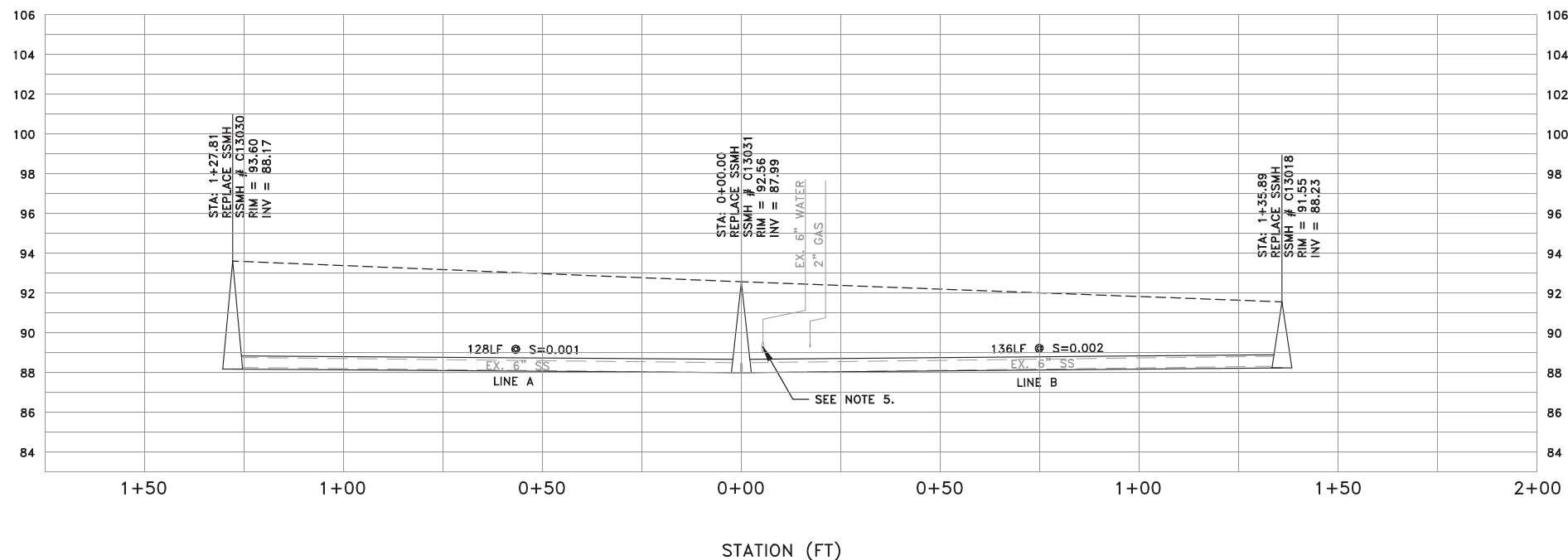
SHEET  
 47  
 JOB NO.  
 1068

SEE SHEET 47



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PROFILE VIEW  
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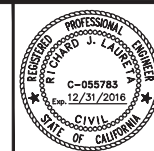
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
 EASEMENT ON MODOC AVENUE  
 MENLO PARK, CALIFORNIA

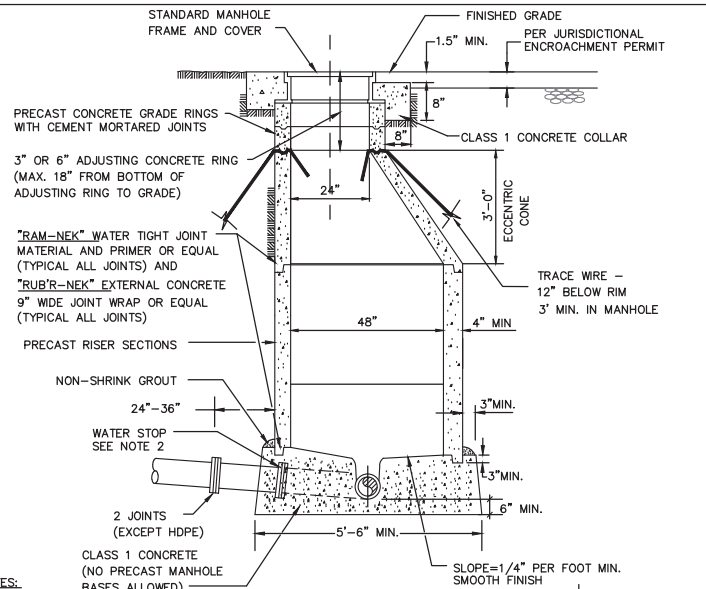
SHEET

48

JOB NO.

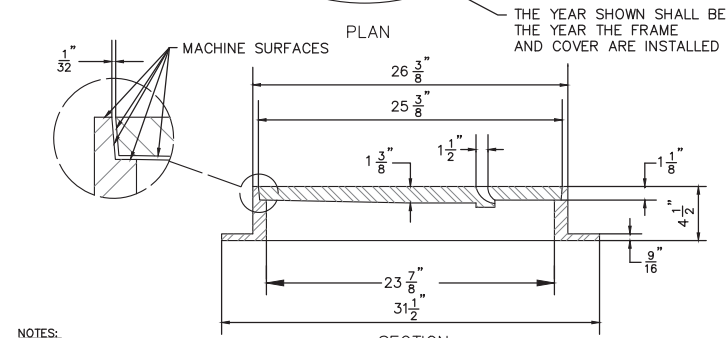
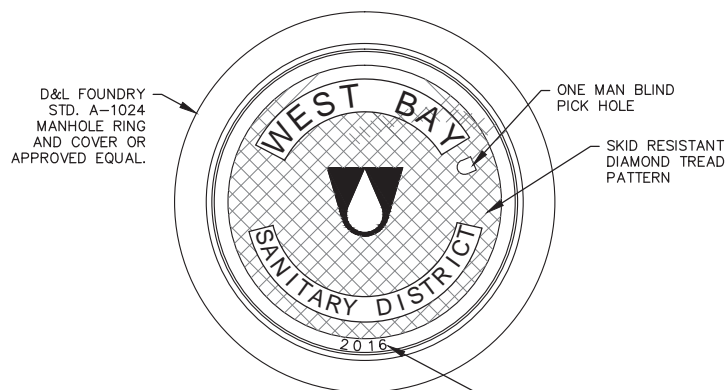
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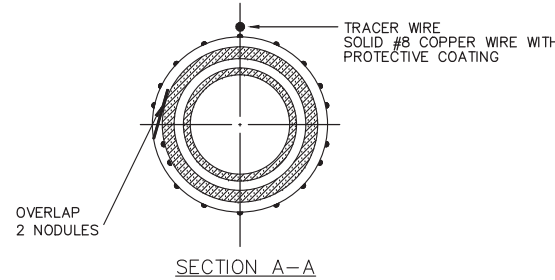
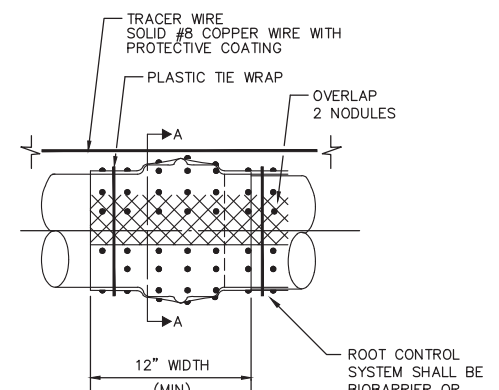
- NOTES:**
- 1) MANHOLE BASES SHALL BE PLACED ON IMPORTED BEDDING MATERIAL COMPACTED TO 95% RELATIVE COMPACTION.
  - 2) AN APPROVED WATER STOP SHALL BE INSTALLED ON ALL FLEXIBLE PIPE ENTERING OR LEAVING A MANHOLE, AND CENTERED UNDER MANHOLE WALL.
  - 3) INSTALL "RAM-NEK" WATER TIGHT JOINT MATERIAL OR EQUAL BETWEEN EACH JOINT OF CONE AND BARREL SECTIONS TO MAKE A FLEXIBLE WATERTIGHT JOINT. AFTER JOINT IS MADE, TRIM JOINT SMOOTH ON INSIDE OF MANHOLE.
  - 4) STEPS IN MANHOLES ARE NOT ALLOWED.
  - 5) TRACE WIRE SHALL BE SOLID AND COATED 8 GAUGE COPPER WIRE PLACED 12" BELOW RIM WITH 3' COILED UP IN MANHOLE.
  - 6) MANHOLES SHALL BE VACUUM TESTED.
  - 7) ECCENTRIC CONE SHALL BE POSITIONED IN SUCH A MANNER OVER CENTER OF PIPE FOR INSTALLATION OF FLOW METER SENSOR BRACKET.
  - 8) CONCRETE PLATFORMS MAY BE REQUIRED ON A CASE BY CASE BASIS.

**MANHOLE FOR 21" DIAMETER AND SMALLER PIPE**



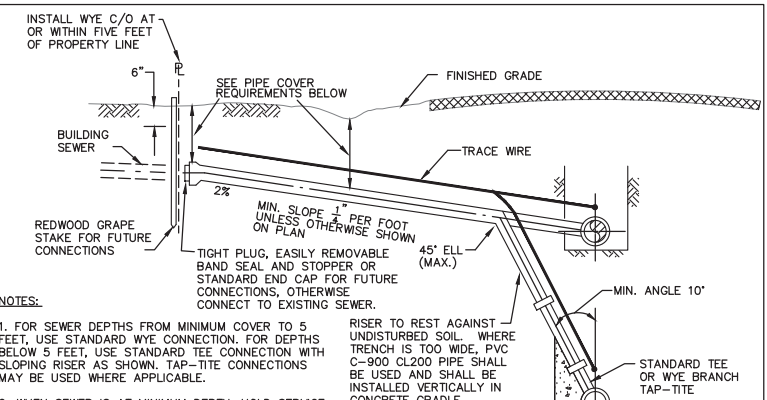
- NOTES:**
- 1) CAST IRON FOR FRAME AND COVER SHALL BE CLASS 30 MINIMUM PER ASTM A-48.
  - 2) COVERS SHALL BE H-20, FULL VEHICULAR TRAFFIC LOADING, RATED AND SHALL NOT EXCEED 145 POUNDS IN WEIGHT.
  - 3) THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PRIOR TO LEAVING FOUNDRY.

**MANHOLE FRAME AND COVER**



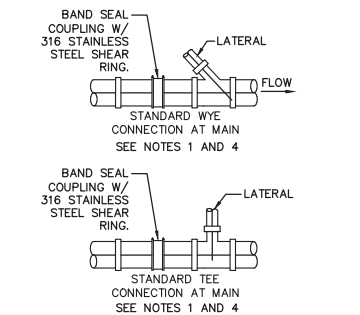
- APPLICATION:**
- 1) ALL NEW MAIN SEWER PROJECTS.
  - 2) ALL NEW OR REPLACEMENT SANITARY SEWER LATERAL CONNECTIONS.
  - 3) SANITARY SEWER LATERAL REPAIRS.

**ROOT CONTROL SYSTEM**

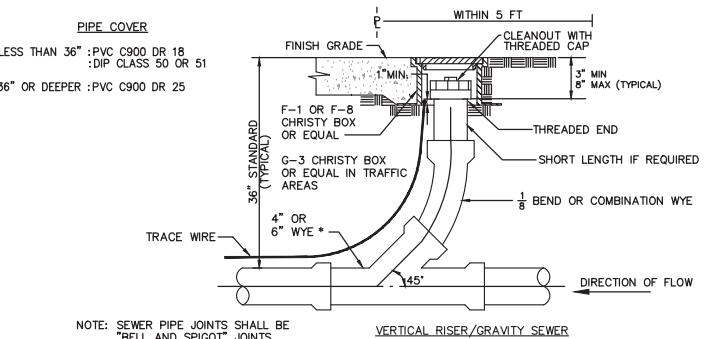


- NOTES:**
1. FOR SEWER DEPTHS FROM MINIMUM COVER TO 5 FEET, USE STANDARD WYE CONNECTION. FOR DEPTHS BELOW 5 FEET, USE STANDARD TEE CONNECTION WITH SLOPING RISER AS SHOWN. TAP-TITE CONNECTIONS MAY BE USED WHERE APPLICABLE.
  2. WHEN SEWER IS AT MINIMUM DEPTH, HOLD SERVICE LINE TO MINIMUM SLOPE AND LESSEN COVER AT PROPERTY LINE, OTHERWISE 3 FEET OF COVER TO OFFICIAL GRADE IS REQUIRED AT PROPERTY LINE.
  3. THE LOCATION OF ALL SEWER LATERALS SHALL BE MARKED WITH A LETTER "S" ON TOP OF CURB OR BACK OF WALK.
  4. ALL SERVICE TEES OR WYES SHALL BE MANUFACTURER'S STANDARD FITTINGS. CONNECTION CLOSURE SHALL BE BY STANDARD BAND SEAL COUPLINGS WITH 316 STAINLESS STEEL SHEAR RING ON SERVICE ADDITIONS. NO PIPE BREAKING AND CONCRETE PATCHING WILL BE PERMITTED, ONLY NEATLY SNAPPED OR SAWCUT LENGTHS WILL BE ALLOWED.
  5. 8 GAUGE COPPER WIRE FOR TRACING PURPOSES SHALL BE PLACED ON ALL NEW LATERALS AND REPLACEMENT LATERALS WHEN EXCAVATION IS FROM MAIN LINE TO THE PROPERTY LINE CLEANOUT. WIRE TO BE BROUGHT TO RISER WITH TWO FEET COILED INSIDE BOX.
  6. TAP-TITE AND TEE CONNECTIONS ARE NOT ALLOWED IN TERMINATING SEWER MAINS (MOST UPSTREAM LINE).
  7. CONTRACTOR SHALL PLACE ROOT CONTROL FABRIC OVER ALL JOINTS AS SHOWN ON WEST BAY SANITARY DISTRICT DETAIL NO. 13.
  8. CONTRACTOR SHALL INSTALL BEDDING AND BACKFILL MATERIAL AS SHOWN ON WEST BAY SANITARY DISTRICT DETAIL NO. 8.

**DEEP SEWER - GREATER THAN 10'**

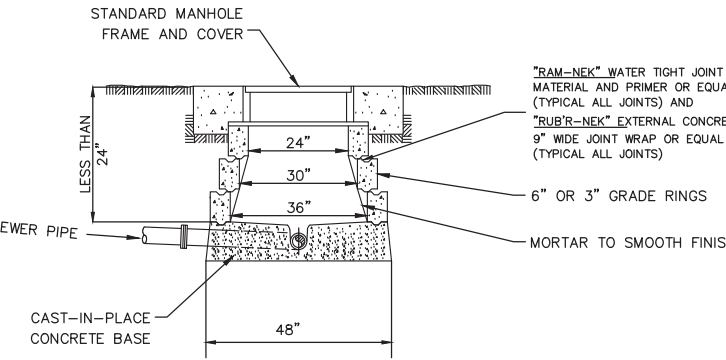


- PIPE COVER**
- LESS THAN 36" - DIP CLASS 50 OR 51  
 PVC C900 CLASS 200
- 36" OR DEEPER - PVC C900 CLASS 150
- SANITARY SEWER LATERAL CONNECTIONS**

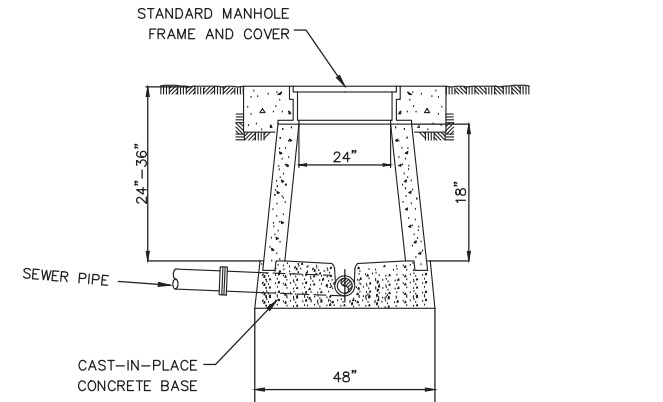


- NOTES:**
- 1) THE CLEAN OUT ASSEMBLY SHALL BE THE SAME SIZE AS THE LATERAL SEWER IT SERVICES.
  - 2) COVERS SHALL BE C.I. FOR STREETS, ALLEYS OR DRIVES, OTHERWISE FIBRELYTE OR CONCRETE FOR NON-TRAFFIC USE.
  - 3) #8 GAUGE SOLID AND COATED COPPER WIRE FOR TRACING PURPOSES SHALL BE PLACED ON ALL NEW LATERALS AND REPLACEMENT LATERALS WHEN EXCAVATION IS FROM MAIN LINE TO THE PROPERTY LINE. CLEANOUT WIRE TO BE BROUGHT TO RISER WITH TWO FEET COILED INSIDE BOX.
  - 4) ALL CLEAN OUT BOX LIDS SHALL BE MARKED WITH A LETTER "S" OR THE WORD "SEWER".
  - 5) WYE SHALL BE INSTALLED AT OR WITHIN 5 FEET OF PROPERTY LINE.
  - 6) CONTRACTOR SHALL PLACE ROOT CONTROL FABRIC OVER ALL JOINTS AS SHOWN ON WEST BAY SANITARY DISTRICT DETAIL NO. 13.
  - 7) CONTRACTOR SHALL INSTALL BEDDING AND BACKFILL MATERIAL AS SHOWN ON WEST BAY SANITARY DISTRICT DETAIL NO. 8.

**SERVICE LATERAL CLEANOUT**



**SHALLOW MANHOLE LESS THAN 24" DETAIL IN EASEMENTS WITH LIMITED ACCESS**



**SHALLOW MANHOLE BETWEEN 24"-36" DETAIL IN EASEMENTS WITH LIMITED ACCESS**

|             |          |          |                          |       |
|-------------|----------|----------|--------------------------|-------|
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**WEST BAY**  
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 PROJECT No. 1758.5



**BELLE HAVEN SEWER PROJECT PHASE II**  
 DETAIL SHEET #1  
 MENLO PARK, CALIFORNIA

SHEET  
 49  
 JOB NO.  
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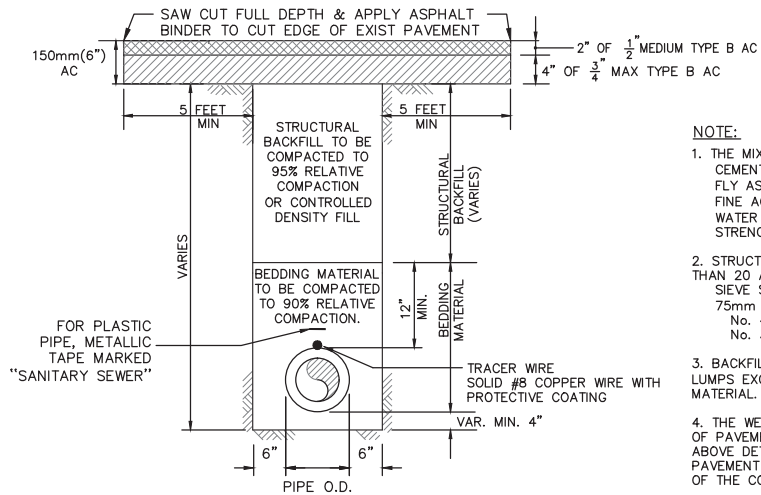
**BEDDING MATERIAL**

GRANULAR BEDDING MATERIAL REQUIREMENTS  
(ASTM D448 SIZE #67)

| SIEVE SIZES | PERCENTAGE PASSING |
|-------------|--------------------|
| 1"          | 100                |
| 3/4"        | 90-100             |
| 3/8"        | 20-55              |
| #4          | 0-10               |
| #8          | 0-5                |

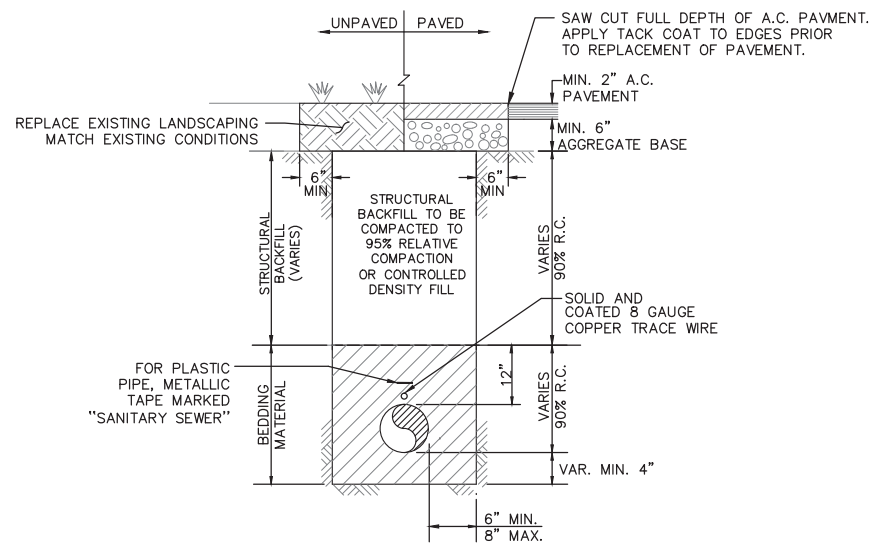
**NOTE:**

- THE MIX DESIGN FOR CDF SHALL MEET THE FOLLOWING REQUIREMENTS:  
CEMENT 50-100 LB/CU. YD  
FLY ASH, CLASS F 10-2000 LB/CU. YD  
FINE AGGREGATE 2600-3100 LB/CU. YD  
WATER 325/580 LB/CU. YD  
STRENGTH @ 28 DAY 50-100 PSI
- STRUCTURAL BACKFILL MATERIAL: MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY MATERIAL AS FOLLOWS:  
SIEVE SIZE % PASSING SIEVE  
75mm (3") 100  
No. 4 35-100  
No. 30 20-100
- BACKFILL MATERIAL: MATERIAL FROM EXCAVATION FREE FROM STONES OR LUMPS EXCEEDING 75mm (3"), VEGETABLE MATTER OR OTHER UNSATISFACTORY MATERIAL.
- THE WEST BAY SANITARY DISTRICT SHALL BE RESPONSIBLE FOR THE PAYMENT OF PAVEMENT RESTORATION OVER THE MAXIMUM TRENCH WIDTH AS SHOWN ON THE ABOVE DETAIL. ANYTHING BEYOND THE MAXIMUM TRENCH WIDTH, INCLUDING PAVEMENT FAILURE CAUSED BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS AUTHORIZED BY THE DISTRICT.



FULL DEPTH AC PAVEMENT, 150mm(6") MIN. BUT SHALL NOT BE LESS THAN EXISTING EXISTING PAVEMENT SECTION.

**1 UTILITY TRENCH-CITY OF MENLO PARK-RIGHT OF WAY  
(MODIFIED PER CITY OF MENLO PARK STANDARDS)**



**BEDDING MATERIAL**

ANGULAR BEDDING MATERIAL REQUIREMENTS  
PERCENT PASSING

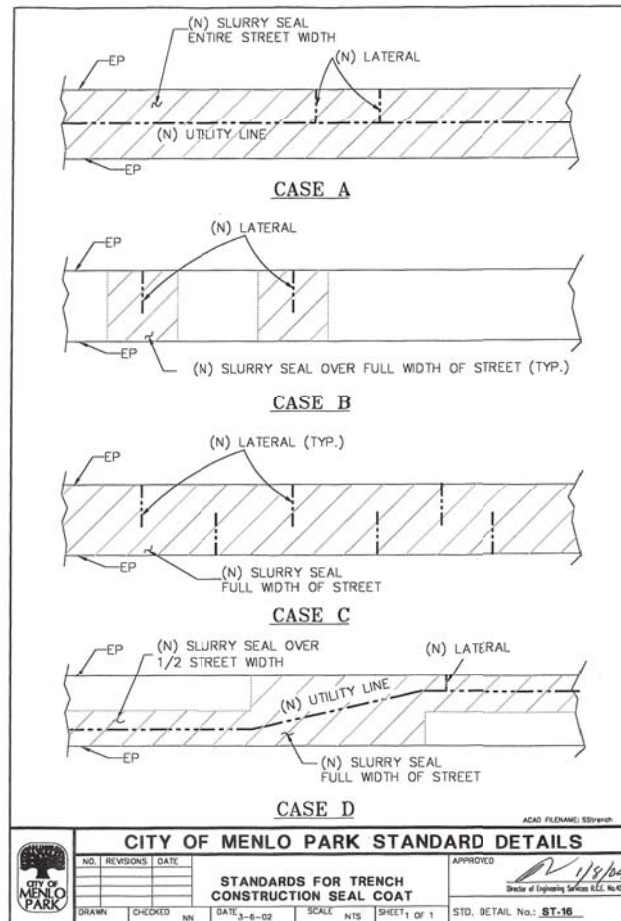
| SIEVE SIZES | PERCENTAGE PASSING |
|-------------|--------------------|
| 1"          | 100                |
| 3/4"        | 90-100             |
| 3/8"        | 20-55              |
| #4          | 0-10               |
| #8          | 0-5                |

**STRUCTURAL BACKFILL**

STRUCTURAL BACKFILL REQUIREMENTS  
PERCENT PASSING

| SIEVE SIZES | PERCENTAGE PASSING |
|-------------|--------------------|
| 1-1/2"      | 100                |
| 3/4"        | 80-100             |
| #4          | 30-60              |
| #30         | 5-35               |
| #200        | 0-12               |

**2 UTILITY TRENCH-IN EASEMENT AREAS**



**CITY OF MENLO PARK STANDARD DETAILS**

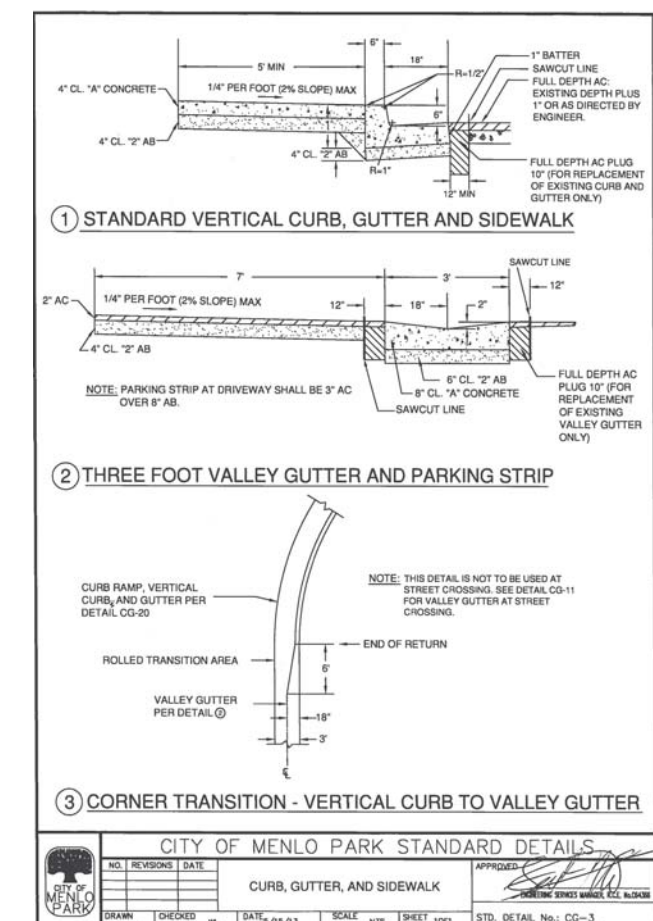
| NO. | REVISIONS | DATE |
|-----|-----------|------|
|     |           |      |

STANDARDS FOR TRENCH CONSTRUCTION SEAL COAT

APPROVED: [Signature] 1/18/14  
Director of Engineering Services E.E. McKEE

DRAWN: [Signature] CHECKED: [Signature] DATE: 3-6-02 SCALE: NTS SHEET 1 OF 1 STD. DETAIL No.: ST-16

**3 STANDARDS FOR TRENCH CONSTRUCTION SEAL COAT**



**CITY OF MENLO PARK STANDARD DETAILS**

| NO. | REVISIONS | DATE |
|-----|-----------|------|
|     |           |      |

CURB, GUTTER, AND SIDEWALK

APPROVED: [Signature] 5/15/13  
Public Works Manager G.L. NICKER

DRAWN: [Signature] CHECKED: [Signature] DATE: 5/15/13 SCALE: NTS SHEET 1 OF 1 STD. DETAIL No.: CG-3

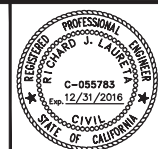
**4 STANDARDS FOR CURB, GUTTER, AND SIDEWALK**

|             |          |                          |                         |
|-------------|----------|--------------------------|-------------------------|
| DATE:       | 6/25/15  | 04/15/16                 | ISSUED FOR BOARD REVIEW |
| SCALE:      | AS NOTED | 04/26/16                 | ISSUED FOR BOARD REVIEW |
| DESIGNED:   | JJF      |                          |                         |
| DRAWN:      | PJG      |                          |                         |
| CHECKED:    | JJF      |                          |                         |
| PROJ. ENGR: | RJL      |                          |                         |
| BY          | DATE     | DESCRIPTION OF REVISIONS | APP'D                   |



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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY



PROJECT No. 1758.5

**BELLE HAVEN SEWER PROJECT PHASE II**  
**DETAIL SHEET #2**  
**MENLO PARK, CALIFORNIA**

SHEET  
50  
JOB NO.  
1068